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3/22/95 Hughes Deposition Exhibit 1
73. MSDS 10/6/86-Styles 7021, 7021 T, 7405, 7819 & 9533 Compressed Asbestos Sheet; Prepared by H. Hughes
74. MSDS 10/6/86-Styles 902, 903 & 903 S Compressed Asbestos Sheet; Prepared by H. Hughes
75. MSDS 10/6/86-Styles 7228, 9053 & 9057 Compressed Asbestos Sheet; Prepared by H. Hughes
76. MSDS 10/6/86-Styles 8746 & 8748 Compressed Asbestos Sheet; Prepared by H. Hughes
77. MSDS 4/13/87-Styles 900, 900 T, 7005, 7006, 7735, 7735 S-1 & 9532 Compressed Asbestos Sheet; Prepared by H. Hughes
78. MSDS 4/13/87-Styles 902, 903 & 903 S Compressed Asbestos Sheet; Prepared by H. Hughes
79. MSDS 4/13/87-Styles 7021, 7021 T, 7405, 7819 & 9533 Compressed Asbestos Sheet; Prepared by H. Hughes
80. MSDS 4/13/87-Styles 7228, 9053 & 9057 Compressed Asbestos Sheet; Prepared by H. Hughes
81. MSDS 4/13/87-Styles 8746 & 8748 Compressed Asbestos Sheet; Prepared by H. Hughes

82. MSDS 6/18/87-Style 1000 Compressed Asbestos Sheet; Prepared by H. Hughes
83. MSDS 4/3/90-Styles 604, 605 & 612; Prepared by H. Hughes

MSDS - Date Unknown; Filled
Polytetrafluoroethylene, Gylon
Style 3500 (Fawn)
Prepared by Unknown

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS Filled Polytetrafluoroethylene		TRADE NAME AND SYNONYMS GYLON Style 3500 (Fawn)
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Product consists of polytetrafluoroethylene resin with a silica filler and an inorganic color. The product is not considered hazardous under normal conditions of use.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	2.19
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (—=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Fawn (tan) colored sheet. No odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	Lo:	Hi:
		Nonflammable		
EXTINGUISHING MEDIA Fires in areas where GYLON is stored may be fought with water, carbon dioxide, foam or dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES GYLON will not burn without an external source of fuel. In fighting fires where quantities of GYLON are stored, self contained breathing apparatus should be used to protect against hydrogen fluoride fumes.				
UNUSUAL FIRE AND EXPLOSION HAZARDS GYLON may burn in an atmosphere of 100% oxygen when an ignition source is present.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	None
EFFECTS OF OVEREXPOSURE	None under normal conditions of use. Exposure to thermal decomposition products may cause polymer fume fever with flu-like symptoms. This is a temporary condition.
EMERGENCY AND FIRST AID PROCEDURES	Not necessary under normal conditions of use. For over-exposure to thermal decomposition products: Move to fresh air. Contact physician for treatment.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Avoid high temperatures without adequate ventilation.
INCOMPATIBILITY (Materials to avoid) None for storage. In actual service, GYLON should not be used against molten alkali metals, fluorine, hydrofluoric acid.			
HAZARDOUS DECOMPOSITION PRODUCTS Certain other fluorine bearing compounds. Hydrogen fluoride gas, carbonyl fluoride, perfluorocarbon olefins are evolved at high temperature.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR.	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; waste may be placed in plastic bag if desired. Comply with any local disposal regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) No special requirements when handling or using GYLON in the normal manner.		
VENTILATION	LOCAL EXHAUST	NO special requirements
	MECHANICAL (General)	NO special requirements under normal conditions of use.
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from highly flammable materials.	
OTHER PRECAUTIONS	
Personnel should avoid contaminating cigarettes or tobacco with dust or particles of GYLON.	

**Hughes Deposition
2
3/22/95**

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January 9, 1978

Web Seal Inc.
15 Oregon Street
Rochester, New York 14605

Attention: Mr. Jerry Crowley

Re: Material Safety Data Sheet

(Rochester Products Division, GMC)

Dear Jerry:

In regard to your letter of 10/4/77 requesting completion of Material Safety Data Sheets for Garlock Style 604, our Legal Department has advised that the law does not require us to furnish these for this type of product and it is currently our policy not to do so.

Additionally, with regard to the Toxic Substances Control Act, our technical people report as follows:

"As you may already be aware, the EPA published inventory reporting regulations in the Federal Register of December 23, 1977. It is now anticipated that the inventory will not be published until late in 1978.

Under the new regulations, items you purchase from us would be classified as either "articles" or "mixtures", depending on the particular item, and as such they would not have to be reported for the inventory.

All chemical substances used as components of our products must, of course, appear on the inventory. This is primarily a responsibility of our suppliers. Under the new regulations, processors and users, like ourselves, are allowed a 210 day period following publication of the inventory to report any chemical substances they use that did not get on the inventory. We will review the inventory and take whatever action is necessary to insure that all the chemical substances used in our products are reported."

Should you require further information, please advise.

Sincerely,
GARLOCK INC.

L.R. Sementilli, Manager Product Line 82

LRS/dm

MSDS 6/2/78

Untreated Fiber Glass Cloth

Thermo-Sil Fiber Glass Cloth

Non Asbestos

Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock, Inc.		EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS Untreated Fiber Glass Cloth		TRADE NAME AND SYNONYMS Thermo-Sil Fiber Glass Cloth
CHEMICAL FAMILY N/A	FORMULA N/A (Untreated)	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains fiber glass yarn plus a small percentage (typically				2.5-3.5%)	
of organic binder added during yarn production. The compo-					
nents of Thermo-Sil are not believed to be hazardous.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	Approx. 2.54
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	White woven fabric, slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) None	FLAMMABLE LIMITS N/A	Let	Uel
EXTINGUISHING MEDIA N/A			
SPECIAL FIRE FIGHTING PROCEDURES None			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

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SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE For glass fiber: 10 mg/M^3 of air for fiber diameters less than 7 microns.	
EFFECTS OF OVEREXPOSURE Temporary mechanical irritation of the skin of certain individuals who may have a sensitivity to the fiber.	
EMERGENCY AND FIRST AID PROCEDURES In cases of irritation of the skin, wash with mild soap and room temperature to cool water. If fibers should get into the eyes, irrigate with clear water.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will burn off the organic binder.
INCOMPATIBILITY (Materials to avoid) None known.			
HAZARDOUS DECOMPOSITION PRODUCTS In a fire, the small quantity of organic binder on the fiber will decompose resulting in small quantities of unknown products believed insufficient to be considered.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.	
WASTE DISPOSAL METHOD Normal landfill; waste may be placed in plastic bag if desired.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirements. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	SPECIAL	
	MECHANICAL (General)	OTHER	
PROTECTIVE GLOVES Not required unless individual has a sensitivity to the fiber.		EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Any persons exhibiting sensitivity to the fibers should avoid excessive contact with skin. All persons should wash normally after handling.	
OTHER PRECAUTIONS None.	

MSDS 6/15/78
Tacky Asbestos Cloth
Style 6224
Prepared by Unknown

N/A - Not Applicable. U.S. DEPARTMENT OF
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

Rec'd 6/15/79
AT PROD LIAISON
COM MTC.

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 6224 Tacky Asbestos Cloth	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 42% Chrysotile (White) Asbestos.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	White elastomer compound on fabric-slight characteristic odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, Carbon Dioxide, Dry Chemical				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.				

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 733 Braided Asbestos Packing	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about 46.5% in 1/2" Style 733. The asbestos yarn is thoroughly impregnated with a petroleum base lubricant which inhibits generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Regular Style 733 is black and has a slight characteristic odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Flash point of Petroleum Binder is about 592°F.	FLAMMABLE LIMITS	Lower	Upper
		Unknown		
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self-contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances.			
There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)	No special requirement	None
PROTECTIVE GLOVES		No special requirement	None
		Not required	EYE PROTECTION AS generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place, away from strong oxidizing agents.	
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph	

1910.1001).

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
 Harold R. Hughes
 Senior Chemist

7/26/78

MSDS 7/26/78
Style 7817
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 7817	
CHEMICAL FAMILY N/A	FORMULA	N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 53.7% Chrysotile (White) Asbestos. The					
asbestos fabric is impregnated with an elastomer compound					
which inhibits the generation of free asbestos fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	White elastomer compound on fabric - slight character- istic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA	Water, Carbon Dioxide, Dry Chemical				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the product. For free asbestos fiber: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the product.
EMERGENCY AND FIRST AID PROCEDURES None	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound and organic portion of yarn in fabric.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Unknown.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD Normal landfill; waste may be placed in plastic bag, if desired.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirements. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES Not required.		EYE PROTECTION As generally good practice safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).	

PAGE 12)

Form OSHA-20
Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied is made.

Prepared by H. R. Hughes
H. R. Hughes
Senior Chemist

7/26/78

MSDS 7/26/78
Style 5884
Braided Blue Asbestos Packing
Prepared by H. Hughes

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 5884 Braided Blue Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Crocidolite (Blue) Asbestos is present to the extent of about 48% in 1/2" Style 5884. The asbestos yarn is impregnated with polytetrafluoroethylene and a petroleum base lubricant which inhibits generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR: Product is blue with white areas.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke and hydrogen fluoride fumes produced.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces smoke and decomposition of the polytetrafluoroethylene produces hydrogen fluoride fumes.					

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. FOR free asbestos fibers: NOT more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite lubricant.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride fumes, carbonyl fluoride and perfluorocarbon olefins are evolved at high temperatures. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirements	SPECIAL None
	MECHANICAL (General)	No special requirements	OTHER None
PROTECTIVE GLOVES	Not required.		EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA regulations (29CFR, Paragraph 1910.1001).	

PAGE (2)

GPO 834-110

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
Barford R. Hughes
Senior Chemist

7/26/78

MSDS 10/4/78

Style 5862

Braided White Asbestos Packing

Prepared by H. Hughes

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

OMB No. 24-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 5862 Braided White Asbestos Packing	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

% TLV
(Units)

Chrysotile (White) asbestos is present to the extent of about 46% in 1/2" Style 5862. The asbestos yarn is impregnated with polytetrafluoroethylene and a petroleum base lubricant which inhibits the generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR Pale grey to white Braided Packing.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke and hydrogen fluoride fumes produced.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces smoke and decomposition of the polytetrafluoroethylene produces hydrogen fluoride fumes.					

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE None under normal conditions of use. Overexposure to thermal decomposition products of polytetrafluoroethylene may cause flu-like symptoms. This is a temporary condition.

EMERGENCY AND FIRST AID PROCEDURES Not necessary under normal conditions of use. For overexposure to thermal decomposition products of polytetrafluoroethylene, move to fresh air. Contact physician for treatment.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite lubricant.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride fumes, carbonyl fluoride and perfluorocarbon olefins are evolved at high temperatures. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
	No special requirements.	None.
	No special requirements.	None.
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT	Not required. Normal wash up after handling is suggested.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA regulations (29CFR, Paragraph 1910.1001).

PAGE (2)

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
H. R. Hughes, Senior Chemist

10/4/78

Form OSHA-20

Rev. May 72

GPO 934-190

MSDS 11/14/78
Style 7367
Tadpole Tape
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 7367 Tadpole Tape	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 70% Chrysotile (White) Asbestos. The asbestos fabric is impregnated with an elastomer compound which inhibits the generation of free asbestos fiber or dust. The asbestos rope in the bulb portion is not impregnated.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Tadpole shape. White elastomer compound on fabric - slight characteristic odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Water, Carbon Dioxide, Dry Chemical, Foam			
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the product. For free asbestos fiber: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the product.
EMERGENCY AND FIRST AID PROCEDURES	
None	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound and organic portion of yarn in fabric and of the rope.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain conditions. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fibers to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) NO special requirements. wear mouth and nose mask when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	NO special requirement.	SPECIAL None.
	MECHANICAL (General)	NO special requirement.	OTHER None.
PROTECTIVE GLOVES		EYE PROTECTION AS generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT		Not required.	

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	
Most of the asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph, 1910.1001).	

PAGE (2)

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by:

H. R. Hughes, Senior Chemist

11/14/78

MSDS 1/2/79
Style 605
Fabric Sheet
Prepared by H. Hughes

Hughes Deposition
Exhibit 6
3/22/95

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	
EFFECTS OF OVEREXPOSURE	N/A to the cloth. N/A to the cloth.
EMERGENCY AND FIRST AID PROCEDURES	None.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound and organic portion of yarn in fabric.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Unknown.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; waste may be placed in plastic bag, if desired.

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirements. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None.
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied is made.

Colt Industries

Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522
315/597-4811

November 3, 1982

Kimberly-Clark Corporation
Neenah, Wisc. 54956

Attn: Lynne V. Paba
Technical Information & Special Services
K-C West Library

Ref: Your letter dated Oct. 22, 1982

Material Safety Data Sheet - Garlock Style 605

Dear Ms. Paba:

Attached is a current Material Safety Data Sheet for Garlock Style 605. It is the same as the one you have, but I felt another copy wouldn't hurt.

In regard to the hazzard ratings requested, our Material Engineer has stated the following:

Health	- 2
Flammability	- 1
Reactivity	- 0

In reference to the other two (2) Garlock items on your list, they have been forwarded to our Compression Packing Division, 300 Alling Drive, Sodus, NY 14551, phone: 315/483-6961.

If you have any questions, or if I can be of any further help, please call.

Sincerely,

GARLOCK



Kathy Cooley
OEM Sales/Gasketing Products

Atts.

U.S. DEPARTMENT OF LABOR

Form Approved
OMB No. 44-R1387

N/A = Not Applicable Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 605	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Contains about 40-45% Chrysotile (White) Asbestos. The asbestos fabric is impregnated with an elastomer compound which inhibits the generation of free asbestos fiber or dust.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	White elastomer compound on fabric - slight characteristic odor. Also available with surface graphite.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the product. For free asbestos fiber, Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the product.
EMERGENCY AND FIRST AID PROCEDURES	
None	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound and organic portion of yarn in fabric.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS			
Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fibers to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) NO special requirements. Wear mouth and nose mask when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None.
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES		EYE PROTECTION	
Not required.		AS generally good practice safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).	

PAGE (2)

Form OSHA-20
Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by H. R. Hughes
H. R. Hughes, Senior Chemist

1/2/79

Addendum to Section II Form OSHA-20

It is our view that our product No. 605 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. 605 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations .

To: H. Hughes - Mat'l. Engineering	From: Cell Industries Garlock
	Gasketing Products
Subject: Kimberly-Clark Corp., Neenah, Wisc. 54956 Material Safety Data Sheet - Garlock Style 605	
Date: 11/2/82	
Memo: Harold:	
Please review the attached. Your help in completing this information that Kimberly-Clark has requested will be most appreciated.	
Sincerely,	
Kathy Cooley	
Atts.	Signed Inside Sales Correspondent
Reply:	
Attached is current MSDS for 605. It is the same as the one Kimberly-Clark has but another copy won't hurt. As regards the hazard ratings requested, I would say as follows:	
Health - 2	
Flammability - 1	
Reactivity - 0	
Signed	

G-218-G

RECEIVER'S COPY

000-G0030027



RECEIVED

NOV 1 REC'D

KIMBERLY-CLARK CORPORATION

October 22, 1982

Garlock Inc.
Friends Avenue
Newtown Industrial Commons
Newtown, PA 18940

RECEIVED

OCT 28 1982

PLASTOMER

Gentlemen:

Enclosed please find a list of materials Kimberly-Clark Corporation purchases from you for use in any number of our mills throughout the United States and Canada as well as in our research lab facilities here in Neenah, Wisconsin. We currently maintain a Material Safety Data Sheet for each of the items listed.

As we are in the process of updating and improving our Material Safety Data Sheet program, we would ask that you review the list and send us any revised or updated Material Safety Data Sheets that you have published since the date shown on the list.

You will note that we have included three columns entitled "Health", "Flammability" and "Reactivity", as well as a "Hazard Code" number system. If this number code (usually in the form of a diamond-shaped chart) is not included on your Material Safety Data Sheets, we would appreciate your help in completing this information. This will enable us to enter the data into the computer and provide a print-out to our mills and research locations with the hazard codes immediately available to better ensure the safety of our employees.

Please feel free to contact me if you have any questions regarding our request.

Thank you for your courtesy and cooperation.

Sincerely,

Lynne V. Paba
Technical Information and
Special Services
K-C West Library

STATISTICAL ANALYSIS SYSTEM

13:31 FRIDAY, SEPTEMBER 17, 1982 355

MANU=GARLOCK

OBS	MANU	NAME	DATE	HEALTH	FLAMMABILITY	REACTIVITY
2306	GARLOCK	GARLOCK LUBRICATING COMPOUND #2	D8101			
2307	GARLOCK	GARLOCK SYTLE 605	D7901			
2308	GARLOCK	STYLE 834 BRAIDED ASBESTOS PACKING	D8003			

Hazard Code
 4 - Extreme
 3 - High
 2 - Moderate
 1 - Slight
 0 - Insignificant

DATE SAMPLE: If Date Column shows "D8208", this would interpret to August, 1982. Another example would be "D8111" which would interpret to November, 1981, etc.

Colt Industries

Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522
315/597-4811

November 3, 1982

Kimberly-Clark Corporation
Neenah, Wisc. 54956

Attn: Lynne V. Paba
Technical Information & Special Services
K-C West Library

Ref: Your letter dated Oct. 22, 1982

Material Safety Data Sheet - Garlock Style 605

Dear Ms. Paba:

Attached is a current Material Safety Data Sheet for Garlock Style 605. It is the same as the one you have, but I felt another copy wouldn't hurt.

In regard to the hazzard ratings requested, our Material Engineer has stated the following:

Health - 2
Flammability - 1
Reactivity - 0

In reference to the other two (2) Garlock items on your list, they have been forwarded to our Compression Packing Division, 300 Alling Drive, Sodus, NY 14551, phone: 315/483-6961.

If you have any questions, or if I can be of any further help, please call.

Sincerely,

GARLOCK

Kathy Cooley

Kathy Cooley
OEM Sales/Gasketing Products

Atts.



MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 605
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Contains about 40-45% Chrysotile (White) Asbestos. The asbestos fabric is impregnated with an elastomer compound which inhibits the generation of free asbestos fiber or dust.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____-1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	White elastomer compound on fabric - slight characteristic odor. Also available with surface graphite.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LM	UM
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.				

Addendum to Section II Form OSHA-20

It is our view that our product No. 605 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. 605 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations .

To: H. Hughes - Mat'l. Engineering

From:

Call Number: 0
Control:

Gasketing Products

Subject: Kimberly-Clark Corp., Norwalk, Ct 06855
Material Safety Data Sheet - Gasket, Styles 605

Date

11/2/60

Memo: Harold:

Please review the attached. Your help in completing this information that Kimberly-Clark has requested will be most appreciated.

Sincerely,

Kathy Cooley

Atts.

Signed

Inside Sales Correspondent

Reply

Attached is current MSDS for 605. It is the same as the one Kimberly-Clark has but another copy won't hurt. As regards the hazard ratings requested, I would say as follows:

Health - 2

Flammability - 1

Reactivity - 0

Signed

HCH/Hughes

0-316-0

RECEIVER'S COPY

000-000000270



RECEIVED

NOV 1 REC'D

KIMBERLY-CLARK CORPORATION

October 22, 1982

Garlock Inc.
Friends Avenue
Newtown Industrial Commons
Newtown, PA 18940

RECEIVED

OCT 28 1982

PLASTOMER

Gentlemen:

Enclosed please find a list of materials Kimberly-Clark Corporation purchases from you for use in any number of our mills throughout the United States and Canada as well as in our research lab facilities here in Neenah, Wisconsin. We currently maintain a Material Safety Data Sheet for each of the items listed.

As we are in the process of updating and improving our Material Safety Data Sheet program, we would ask that you review the list and send us any revised or updated Material Safety Data Sheets that you have published since the date shown on the list.

You will note that we have included three columns entitled "Health", "Flammability" and "Reactivity", as well as a "Hazard Code" number system. If this number code (usually in the form of a diamond-shaped chart) is not included on your Material Safety Data Sheets, we would appreciate your help in completing this information. This will enable us to enter the data into the computer and provide a print-out to our mills and research locations with the hazard codes immediately available to better ensure the safety of our employees.

Please feel free to contact me if you have any questions regarding our request.

Thank you for your courtesy and cooperation.

Sincerely,


Lynne V. Paba
Technical Information and
Special Services
K-C West Library

STATISTICAL ANALYSIS SYSTEM

15:31 FRIDAY, SEPTEMBER 17, 1982

355

MANU=CARLOCK

OBS	MANU	NAME	DATE	HEALTH	FLAMMABILITY	REACTIVITY
2306	CARLOCK	CARLOCK LUBRICATING COMPOUND #2	D8101			
2307	CARLOCK	CARLOCK SYTLE 605	D7901			
2308	CARLOCK	STYLE 234 BRAIDED ASBESTOS PACKING	D8003			

Hazard Code
 4 - Extreme
 3 - High
 2 - Moderate
 1 - Slight
 0 - Insignificant

DATE SAMPLE: If Date Column shows "D8208", this would interpret to August, 1982. Another example would be "D8111" which would interpret to November, 1981, etc.

MSDS 2/26/79
Style 127
Braided Asbestos Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 127 Braided Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about					
50-55% in 1/4" Style 127. This product also contains zinc dust					
and graphite. Amounts of asbestos, zinc and graphite will vary					
with different sizes.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Grey-Black braided packing - slight odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES					
None. When fire involves large quantities of product, self-contained breathing apparatus would be desirable.					
UNUSUAL FIRE AND EXPLOSION HAZARDS					
None. Produces some smoke when large quantities are burned.					

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid. For graphite: 15 mppcf of air.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite the binder and organic portion of the yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Some carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; waste may be placed in a plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None.
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	
Product has a small quantity of binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.100).	

PAGE (2)

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Form OSHA-20
Rev. May 72

Prepared by: HR Hughes
Harold R. Hughes, Senior Chemist

2/26/79

MSDS 4/9/79
Style 237
Braided Asbestos Packing
Prepared by H. Hughes

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME

Garlock Inc., Compression Packing Division

EMERGENCY TELEPHONE NO.

(315) 483-6961

ADDRESS (Number, Street, City, State, and ZIP Code)

300 Ailing Drive, Sodus, New York 14551

CHEMICAL NAME AND SYNONYMS

N/A

TRADE NAME AND SYNONYMS

Style 237
Braided Asbestos Packing

CHEMICAL FAMILY

N/A

FORMULA

N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

%

TLV
(Units)

Chrysotile (White) Asbestos is present to the extent of about 44% in 1/2" Style 237. The product also contains some graphite. The asbestos yarn is well impregnated with a lubricant which inhibits generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%) (2)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	1/2" size, about 36%	(1)	
APPEARANCE AND ODOR	Style 237 is black and has a characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Of lowest flash component of lubricant is about 320°F.	FLAMMABLE LIMITS	LeI	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical			
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned			

PAGE (1)

(Continued on reverse side)

Form OSHA-20

Rev. May 72

(1) Lubricant is water soluble.

(2) At sufficiently high temperature, organic portion of yarn and lubricant will be lost.

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid. For graphite: 15 mppcf of air.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite the binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; waste may be placed in plastic bag to reduce generation of free asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
NO special requirement. Mouth and nose mask may be worn when cutting or handling large quantities.			
VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)		OTHER
No special requirement.		None.	
No special requirement.		None.	
PROTECTIVE GLOVES		Not required.	
EYE PROTECTION		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).

PAGE (2)

GPO 334-110

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: Harold R. Hughes
Harold R. Hughes, Senior Chemist

4/9/79

MSDS 4/9/79

Style 929

Loose Packing Compound
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 929 Loose Packing Compound	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (White) Asbestos is present to the extent of about					
53% in Style 929. The product also contains some graphite.					
There is some high temperature lubricant present which in-					
hibits the generation of free asbestos fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Grey-black colored packing, slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) of lubricant	above 575°F.	FLAMMABLE LIMITS	Lower	Upper
		Unknown		
EXTINGUISHING MEDIA Foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self-contained breathing apparatus should be used due to smoke and hydrogen fluoride fumes produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces some smoke and hydrogen fluoride fumes.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air. For graphite: 15 mppcf of air.
EFFECTS OF OVEREXPOSURE	None under normal conditions of use. Overexposure to thermal decomposition products may cause flu-like symptoms. This is a temporary condition.
EMERGENCY AND FIRST AID PROCEDURES	Not necessary under normal conditions of use. For overexposure to thermal decomposition products, move to fresh air. Contact a physician for treatment.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Avoid direct flame.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride fumes, carbonyl fluoride, perfluorocarbon olefins and silicon tetrafluoride may be evolved at high temperatures. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) Mouth and nose mask should be worn when handling large quantities or when working with the product for prolonged periods.			
VENTILATION	LOCAL EXHAUST	NO special requirement.	SPECIAL None.
	MECHANICAL (General)	NO special requirement.	OTHER None.
PROTECTIVE GLOVES Not required.		EYE PROTECTION AS generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when handling. See OSHA Regulations (29CFR, Paragraph 1910.1001)

PAGE (2)

GPO 934-170

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is given.

Prepared by:

Harold R. Hughes, Senior Chemist

4/9/79

MSDS 8/6/79
Style 7819
Compressed Asbestos Sheet
Prepared by H. Hughes

Hughes Deposition
Exhibit 3
3/22/95

Colt Industries



Garlock Inc.
Mechanical Packing Division
Industrial Packing
1640 Overton Street
Baltimore, New York 14022
315 297-4811

Prepared by H. Hughes

Gentlemen:

This is in regard to the handling of Garlock products containing asbestos in general and compressed asbestos sheet in particular.

The Occupational Safety and Health Administration (OSHA) has published a regulation covering the safe handling of asbestos and asbestos products (29CFR 1910.1001). A portion of this regulation states that "Caution labels shall be affixed to all raw materials, mixtures, scrap, waste, debris and other products containing asbestos fibers, or to their containers, except that no label is required where asbestos fibers have been modified by a bonding agent, coating, binder or other material so that during any reasonably foreseeable use, handling, storage, disposal, processing or transportation, no airborne concentrations of asbestos fibers in excess of the exposure limits prescribed in paragraph (b) of this section will be released."

All of our asbestos containing products are currently carrying the OSHA warning label so that our customers will be alerted to the fact that the products they are receiving do contain asbestos. This is being done even though products like compressed asbestos sheet contain a binder which performs a bonding function and tends to inhibit the generation of free asbestos fiber. We consider the possibility of release of fibers in the case of products like compressed asbestos sheet remote under normal handling and use.

It is, of course, impossible for us to know of all uses our customers (or the customers of our customers) may make of our products. If, for instance, a customer was to perform certain unusual operations like power wire brushing or disc grinding, or if the compressed asbestos sheet were used as a pile driver pad, it is possible that there might be a release of asbestos sufficient to exceed that specified in 29CFR 1910.1001.

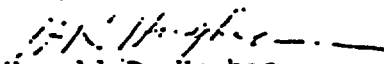
The user should, therefore, refer to 29CFR 1910.1001 for information on handling asbestos and monitoring the release of asbestos fibers.

OSHA Regulation 29CFR 1910.1001 is contained in Title 29 of the Code of Federal Regulations - Labor (Parts 1900-1919). This publication is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, D. C. 20402

We hope that this information will be helpful to you.

Very truly yours,


Harold R. Hughes
Senior Chemist

HRH:mop



N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-111387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmvra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 7819 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Style 7819 contains in excess of 80% of Chrysotile (White)		
stos. The asbestos is bound and encapsulated by an		
elastomeric binder which inhibits the generation of free		
asbestos fiber or dust.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ %)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black colored sheet or masket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Including tests)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	One. When fire involves large quantities of product, self contained				
REATHING APPARATUS	would be desirable due to smoke produced.				
USUAL FIRE AND EXPLOSION HAZARDS	One. Produces thick smoke when large quantities are burned.				

(Continued on reverse side)

Form OSHA-20
Rev. May 72

MSDS 5/22/79

Style 625

Rubber Impregnated Asbestos

Fabric

Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.	EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522	
CHEMICAL NAME AND SYNONYMS Rubber Impregnated Asbestos Fabric	TRADE NAME AND SYNONYMS Style 625
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 40-45% Chrysotile (White) Asbestos. The					
asbestos fabric is impregnated with an elastomer compound					
which inhibits the generation of free asbestos fiber or					
dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Elastomer compound on fabric - black on one side and red on the other - slight characteristic odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE N/A to the product. For free asbestos fiber: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.	
EFFECTS OF OVEREXPOSURE	N/A to the product.
EMERGENCY AND FIRST AID PROCEDURES None.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound and organic portion of yarn in fabric.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fibers to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirements. Wear mouth and nose mask when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None.
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES		Not required.	EYE PROTECTION AS generally good practice safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).	

PAGE (2)
NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

Form OSHA-20
Rev. May 72

5/22/79

MSDS 5/22/79
Style 5855
Braided Asbestos Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 5022 Braided white asbestos packing.	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (white) asbestos present to extent of 40-50%.					
Yarn impregnated with polytetrafluoro ethylene which inhibits generation of free fiber or dust. Product also contains a petroleum base break-in lubricant when requested.					

(SEE ATTACHED SHEET.)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (M ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Pale grey to white Braided Packing Rings.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA		N/A		
Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES				
None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke, hydrogen fluoride and other toxic fumes produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS				
None. Produces smoke and decomposition of the polytetrafluoroethylene produces hydrogen fluoride and other toxic fumes.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeters of air.

EFFECTS OF OVEREXPOSURE
None under normal conditions of use. Overexposure to thermal decomposition products of polytetrafluoroethylene may cause flu-like symptoms. This is a temporary condition.

EMERGENCY AND FIRST AID PROCEDURES
Not necessary under normal conditions of use. For overexposure to thermal decomposition products of polytetrafluoroethylene, move to fresh air. Contact physician for treatment.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite lubricant and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride fumes, carbonyl fluoride and perfluorocarbon olefins are evolved at high temperatures. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.
(SEE ATTACHED SHEET)	

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.		
VENTILATION	LOCAL EXHAUST	SPECIAL NONE
	MECHANICAL (General) No special requirements.	OTHER NONE
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is suggested.		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling, See OSHA Regulations (29CFR, Para,

PAGE (2)

GPO 834-110

1910.1001)
Form OSHA-20

Rev. May 72

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
H.R. Hughes, Supvr., Chemist

4/8/81

MSDS 4/8/81

Style 5022

Braided White Asbestos Packing

Prepared by H. Hughes



Compressed Asbestos Gasketing

GARLOCK STYLE 7021

GARLOCK anti-stick releasing agent, blended into the surface of all GARLOCK compressed asbestos gasketing, eliminates the need for graphited sheet. All styles are excellent for severe service applications involving high pressures or high temper-

atures. GARLOCK compressed asbestos gasketing materials are especially useful where heavy flanges and high bolt loads are commonly found, such as in steam line flanges, cylinder heads of engines, compressors and refrigeration equipment.

The purp
with the lo
you select
application
design and
trouble-free
than 90 ye
experience
manufactur

STYLE NO.	1000	2007 7745	7021	7006 7819	7705	
Material	Wire inserted white chrysotile asbestos with special rubber binder	White chrysotile asbestos with SBR binder	White chrysotile asbestos with SBR binder	White chrysotile asbestos with SBR binder	Blue crocidolite asbestos with acid-resisting SBR binder	
Color	Grey-black	Off white	Grey-black	7006-Off White 7819-Grey-black	Grey-black	
Tensile strength: Across grain*	24.1 MPa (3500 psi)	19.3 MPa (2800 psi)	20.7 MPa (3000 psi)	16.5 MPa (2400 psi)	10.3 MPa (1500 psi)	
Compressibility under 5000 psi load (%)	7-17	7-17	7-17	7-17	15-25	
Recovery (% min.)	40	40	40	40	40	
Oil resistance after 5 hrs. in ASTM #3 oil @ 300°F: Thickness increase (%)	20	20-50	20-50	20-50		
Tensile loss (% max.)	35	70	70	70		
Fuel resistance after 5 hrs. in ASTM Ref. Fuel B @ R.T.: Thickness increase (%)	15	15-35	15-35	15-35		
Weight increase (% max.)	20	40	40	40		
Flexibility	Bends 180° around rod (diameter 16" thicker than sheet) without cracking	Bends 180° around rod (diameter 12" thicker than sheet) without cracking	Bends 180° around rod (diameter 12" thicker than sheet) without cracking	Bends 180° around rod (diameter 12" thicker than sheet) without cracking	Bends 180° around rod (diameter 12" thicker than sheet) without cracking	
Density (min.)	2.24 g/cm³ (140 lbs./ft³)	1.68 g/cm³ (105 lbs./ft³)	1.68 g/cm³ (105 lbs./ft³)	1.60 g/cm³ (100 lbs./ft³)	1.44 g/cm³ (90 lbs./ft³)	
Thicknesses available (inches)	1/32, 1/16, 1/8	1/64, 1/32, 1/16, 3/32, 1/8, 3/16, 1/4	1/64, 1/32, 1/16, 3/32, 1/8, 3/16, 1/4	1/64, 1/32, 1/16, 3/32, 1/8	1/32, 1/16, 3/32, 1/8	
Sheet sizes (inches)	60 x 60	40 x 40 40 x 60 40 x 120		50 x 50 50 x 75 50 x 150	60 x 60 60 x 120 60 x 180	
Tolerance on thicknesses (inches)	1/32 ± .004 1/16 ± .003, -.009 1/8 ± .005, -.019	Refer to the "Standard Commercial Tolerances of Compressed Asbestos Gasketing" chart on page 11.				
How branded	* Style numbers 900, 1000, 7021, 7278, 7705, and 8748 are branded with GARLOCK name and style number thru 60". Over 60" standard is unbranded unless otherwise specified.			Unbranded		

CAUTION: See
condition and
dust may caus
injury and sub

* GARLOCK is
gaskets, and o

(Tested in accordance with ASTM-F-104 Properties based on 1/32" thickness)

Addendum to Section II Form OSHA-20

It is our view that our product No. 7031 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. 7031 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations.

MATERIAL SAFETY DATA SHEET

YORK P/N 028-05151-000

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 7021 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 7021 contains in excess of 80% of Chrysotile (White)					
Asbestos. Typically the level is about 82%.					
The asbestos is bound and encapsulated by an elastomeric binder which					
inhibits the generation of free asbestos fiber or dust.					

(See Attached Sheet)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Black colored sheet or disk - slight odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	L _{EL}	U _{EL}
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.					

Colt Industries



Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522
315/597-4811

September 16, 1981

York Division
Borg-Warner Corporation
P.O. Box 1592
York, PA 17405

Attn: Ivy L. Collins, Buyer
E. M. Purchasing

Subject: Your Letter dated 9/10/81

York P/N 028-05151-000
Garlock Style 7021

Dear Ivy:

In regards to the above subject file enclosed are three (3) copies of the completed Material Safety Data Sheet for our Style 7021 (York P/N 028-05151-000). Also enclosed are three (3) copies of our product data sheet for this particular style.

If you should have any questions, please do not hesitate to give me a call.

Sincerely,

GARLOCK

Kathy Cooley
O.E.M. Sales/Gasketing Products

Encs.



Colt Industries



Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522
315/597-4811

September 16, 1981

York Division
Borg-Warner Corporation
P.O. Box 1592
York, PA 17405

Attn: Ivy L. Collins, Buyer
E. M. Purchasing

Subject: Your Letter dated 9/10/81

York P/N 028-05151-000
Garlock Style 7021

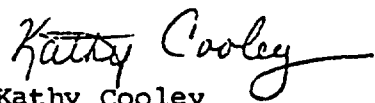
Dear Ivy:

In regards to the above subject file enclosed are three (3) copies of the completed Material Safety Data Sheet for our Style 7021 (York P/N 028-05151-000). Also enclosed are three (3) copies of our product data sheet for this particular style.

If you should have any questions, please do not hesitate to give me a call.

Sincerely,

GARLOCK


Kathy Cooley
O.E.M. Sales/Gasketing Products

Encs.

MSDS 2/13/81
Style 7021
Prepared by H. Hughes

Hughes Deposition
5
3/22/95

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc. Compression Packing Divn.		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS Asbestos Fabric & Rubber Packing		TRADE NAME AND SYNONYMS Style 144
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 40% Chrysotile (White) Asbestos. The asbestos fabric is impregnated with an elastomer compound which inhibits the generation of free asbestos fiber or dust.					
Asbestos content differs somewhat with size.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black surface, round red elastomer compound core - distinct odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uel
EXTINGUISHING MEDIA	Water, Carbon Dioxide, Dry Chemical				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the product. For free asbestos fiber: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the product.
EMERGENCY AND FIRST AID PROCEDURES	
None	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound, core and organic portion of yarn in fabric.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirements. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		EYE PROTECTION	
Not required.		As generally good practice safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001)	

PAGE (2)

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied is made.

Form OSHA-20
Rev. May 72

Prepared by: H.R. Hughes
H.R. Hughes, Supvr., Chemist

1/22/81

MSDS 1/22/81

Style 144

Asbestos Fabric & Rubber
Packing

Prepared by H. Hughes

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME GARLOCK INC.	EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division St., Palmyra, N.Y. 14522	
CHEMICAL NAME AND SYNONYMS Elastomer Compound Impregnated Asbestos Fabric.	TRADE NAME AND SYNONYMS Style 8240 Gaskets
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Style 8240 contains about 40-50% of Chrysotile (white) asbestos.		
It also contains neoprene elastomer. The elastomer does not		
present a hazard in itself, but some chlorine bearing combustion		
products will be generated on burning the elastomer.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black elastomer compound on fabric - slight odor.		

May have soapstone on the surface.**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced and presence of hydrogen chloride and possibly other chlorine bearing combustion products.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire. Burning will generate hydrogen chloride and other chlorine bearing products.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the product. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE N/A to the product.

EMERGENCY AND FIRST AID PROCEDURES NONE

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound and organic portion of yarn in fabric.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride fumes. Possibly carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.

WASTE DISPOSAL METHOD Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL NONE
	MECHANICAL (General)	No special requirement.	OTHER NONE
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.

OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, protect against un-necessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Para. 1910.

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

Form OSHA
Rev. May 72

Prepared by: H.R. Hughes
H.R. Hughes, Supvr., Chemist

10/20/80

MSDS 10/20/80
Style 8240 Gaskets
Elastomer Compound Impregnated
Asbestos Fabric
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.	EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, N.Y. 14522	
CHEMICAL NAME AND SYNONYMS Treated Commercial Grade Asbestos Cloth	TRADE NAME AND SYNONYMS Dust Suppressed Asbestos Cloth
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 75% Chrysotile (White) Asbestos					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	N/A		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, Carbon Dioxide, Dry Chemical, Foam.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.				

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the cloth. For free asbestos fiber: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the cloth.
EMERGENCY AND FIRST AID PROCEDURES	
None	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite treatment and organic portion of yarn in fabric.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Carbon monoxide under certain circumstances. Possibly some acrylic monomer fumes. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No Special Action	
WASTE DISPOSAL METHOD	
Normal landfill: Place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	SPECIAL	
	No special requirement.	None	
PROTECTIVE GLOVES	MECHANICAL (General)	OTHER	
	No special requirement.	None	
OTHER PROTECTIVE EQUIPMENT		EYE PROTECTION	
Not required.		As generally good practice, safety glasses may be worn.	

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS	
Product is treated with a material to suppress dust, however, protect against unnecessary release of fiber when cutting or handling.	

PAGE (2)

CPD 934-100

(See OSHA Reg. (29CFR) 1910. Form OSHA-20 1001)

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied is made.

Prepared By: H.R. Hughes, Supv. Chemist

6/12/80

MSDS 6/12/80
Dust Supressed Asbestos Cloth
Treated Commercial Grade
Asbestos Cloth
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock, Inc. Compression Pkg. Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Ailing Drive - Sodus, N.Y. 14551		
CHEMICAL NAME AND SYNONYMS Shredded Lead Foil and Asbestos Packing, Petroleum Base Lubricant.		TRADE NAME AND SYNONYMS Style 926 Shredded Foil Plastallic.
CHEMICAL FAMILY	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Packing contains about 57% lead foil and about 13% Chrysotile (White)					
asbestos fiber. It also contains graphite. The packing contains a					
lubricant throughout which inhibits the generation of free asbestos					
fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR - Black coil or rings with braided skeleton jacket - slight odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uel
EXTINGUISHING MEDIA: Water, Foam, carbondioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES: None. If fire involves large quantities self contained breathing apparatus should be used due to smoke produced and possibly toxic lead vapors.					
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Lead melts at about 621.1°F. (327.3°C.) Lead vapor may be given off even though lead is not heated to its boiling point.					

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the Packing. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air. For airborne lead: 30 micrograms per cubic meter of air. For Graphite: 15 million particles per cubic ft. of air.

Effects of Overexposure N/A to the Packing

EMERGENCY AND FIRST AID PROCEDURES N/A to the packing. Avoid generation and ingestion of lead particles. If accidentally ingested, give emetics, sodium, potassium or magnesium sulfate orally or give milk or albumin.

Call Physician at once.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite the binder.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances, possibly toxic lead vapors under conditions of high heat. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		Conditions to Avoid
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No Special Action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement under normal conditions of use.			
VENTILATION	LOCAL EXHAUST	No special requirement under normal conditions of use.	SPECIAL NONE
	MECHANICAL (General)	No special requirement under normal conditions of use.	OTHER NONE
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required, normal washup after handling is recommended.			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS - Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001). The lead is present in metallic form. It would not become airborne under normal conditions of use. See OSHA Regulations (29CFR, Paragraph 1910.1025) and Federal Register, Vol. 44 Page 60980 for information on occupational exposure to lead.	

PAGE (2) NOTE:

The information contained herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Form OSHA-20
Rev. May 72

Prepared By:

HR Hughes
Harold R. Hughes, Supvr., Chemist

5/20/80

MSDS 5/20/80
Style 926
Shredded Foil Plastallic
Packing
Prepared by H. Hughes

Form Approved

U.S. DEPARTMENT OF COMMERCE

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE N/A to the paper. For free asbestos fibers: not more than 1 fibers longer than 5 micrometers per cubic centimeter of air.	
EFFECTS OF OVEREXPOSURE N/A to the paper.	
EMERGENCY AND FIRST AID PROCEDURES N/A to the paper.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binders.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Unknown			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action	
WASTE DISPOSAL METHOD Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement; mouth and nose mask may be worn when handling large quantities.			
VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)	No special requirement	None
PROTECTIVE GLOVES		Not required	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT		Not required	

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS Asbestos paper is bonded by elastomer compound, however, protect against unnecessary release of fiber or dust when handling. See OSHA regulations (29 CFR, paragraph 1910.1001).	

PAGE (2)
OSHA 200-100

Form OSHA-20
Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, expressed or implied, is made.

Prepared by: Larry G. Marlin
Larry G. Marlin, Chief Chemist

7/27/79

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration	Form OSHA-20 Rev. May 72
MATERIAL SAFETY DATA SHEET	
Required under USCL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)	

SECTION I	
MANUFACTURER'S NAME Carlock Precision Seal	EMERGENCY TELEPHONE NO. 704-864-8351
ADDRESS (Number, Street, City, State and ZIP Code) 4307 South York Road, Gastonia, NC 28052	
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Spiral Wound Gaskets
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS						
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Unit)	ALLOYS AND METALLIC COATINGS	%	TLV (Unit)	
PIGMENTS		N/A	BASE METAL		N/A	
CATALYST		N/A	ALLOYS		N/A	
VEHICLE		N/A	METALLIC COATINGS		N/A	
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLOW		N/A	
ADDITIVES		N/A	OTHERS		N/A	
OTHERS		N/A				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					%	TLV (Unit)
Spiral Wound Gaskets use latex bonded white asbestos paper as a filler material. The paper is composed of 90% white Canadian or Chrysolite asbestos bound by an elastomer binder and water proofed with paraffin which inhibits generation of free asbestos fiber or dust.						

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (—=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR: course, white colored paper; no odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA							
FLASH POINT (Minimum value)	N/A	FLAMMABLE LIMITS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">L</td> <td style="width: 50%;">U</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> </table>	L	U	N/A	N/A
L	U						
N/A	N/A						
EXTINGUISHING MEDIA: water, foam, carbon dioxide, dry chemical							
SPECIAL FIRE FIGHTING PROCEDURES: None; when fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.							
UNUSUAL FIRE AND EXPLOSION HAZARDS: None; produces smoke when large quantities are burned.							

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(Continued on reverse side)

Form OSHA-20
Rev. May 72



*Newport News Shipbuilding
 And Dry Dock Company
 Purchase Order P975-9602-R*

*Release #5
 citem 23
 NN P/N 97-54-273*

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the paper. For free asbestos fibers: not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the paper.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the paper.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binders.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Unknown			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action	
WASTE DISPOSAL METHOD Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement; mouth and nose mask may be worn when handling large quantities.			
VENTILATION	LOCAL EXHAUST	SPECIAL	
	No special requirement	None	
MECHANICAL (General)	No special requirement	OTHER	
	No special requirement	None	
PROTECTIVE GLOVES Not required		EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS Asbestos paper is bonded by elastomer compound, however, protect against unnecessary release of fiber or dust when handling. See OSHA regulations (29 CFR, paragraph 1910.1001).	

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GPO 9-20-540

Form OSHA-20
Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty expressed or implied, is made.

Prepared by: Larry G. Marlin
Larry G. Marlin, Chief Chemist

7/27/79

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Precision Seal		EMERGENCY TELEPHONE NO. 704-864-8351
ADDRESS (Number, Street, City, State, and ZIP Code) 4307 South York Road, Gastonia, NC 28052		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Spiral Wound Gaskets
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Spiral Wound Gaskets use latex bonded white asbestos paper as a filler material. The paper is composed of 90% white Canadian or Chrysolite asbestos bound by an elastomer binder and water proofed with paraffin which inhibits generation of free asbestos fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR: coarse, white colored paper; no odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	Let	Uel
EXTINGUISHING MEDIA	water, foam, carbon dioxide, dry chemical			
SPECIAL FIRE FIGHTING PROCEDURES	None; when fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None; produces smoke when large quantities are burned.			

*Report New Shipbuilding and Dry Dock
Company's Purchase Order 621B-9002-NB,
All items.*

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the paper. For free asbestos fibers: not more than 1 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the paper.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the paper.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binders.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Unknown			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action	
WASTE DISPOSAL METHOD	
Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement; mouth and nose mask may be worn when handling large quantities.			
VENTILATION	LOCAL EXHAUST		SPECIAL
	No special requirement		None
MECHANICAL (General)			OTHER
	No special requirement		None
PROTECTIVE GLOVES		EYE PROTECTION	
Not required		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS	
Asbestos paper is bonded by elastomer compound, however, protect against unnecessary release of fiber or dust when handling. See OSHA regulations (29 CFR, paragraph 1910.1001).	

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GPO 520-540

Form OSHA-20
Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty expressed or implied, is made.

Prepared by: Larry G. Marlin
Larry G. Marlin, Chief Chemist

7/27/79

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration	Form OSHA-20 Rev. May 72
MATERIAL SAFETY DATA SHEET	
Required under OSHA Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)	

SECTION I	
MANUFACTURER'S NAME Carlock Precision Seal	EMERGENCY TELEPHONE NO. 704-864-8351
ADDRESS (Number, Street, City, State, and ZIP Code) 4307 South York Road, Gastonia, NC 28052	
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Spiral Wound Gaskets
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS						
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)	
PIGMENTS		N/A	BASE METAL		N/A	
CATALYST		N/A	ALLOYS		N/A	
VEHICLE		N/A	METALLIC COATINGS		N/A	
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A	
ADDITIVES		N/A	OTHERS		N/A	
OTHERS		N/A				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					%	TLV (Units)
Spiral Wound Gaskets use latex bonded white asbestos paper as a filler material. The paper is composed of 90% white Canadian or Chrysolite asbestos bound by an elastomer binder and water proofed with paraffin which inhibits generation of free asbestos fiber or dust.						

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (H ₂ O=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR COURSE, white colored paper; no odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	LEL UEL
EXTINGUISHING MEDIA water, foam, carbon dioxide, dry chemical			
SPECIAL FIRE FIGHTING PROCEDURES			
None; when fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
None; produces smoke when large quantities are burned.			

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(Continued on reverse side)

 Form OSHA-20
 Rev. May 72

*Newport News Shipbuilding
 And Dry Dock Company
 Purchase Order 995-9602-R*

*Release #5
 item 23
 NNP/N 97-54-273*

MSDS 7/27/79
Spiral Wound Gasket
Prepared by Larry G. Marlin

Hughes Deposition
Exhibit 7
3/22/95

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 5855 Braided Asbestos Packing (with core)
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Contains about 40% Chrysotile (White) Asbestos Fiber and about 30% graphite. Core contains some neoprene elastomer. The elastomer does not present a hazard in itself, but some chlorine bearing combustion products will be generated on burning.

Binders in Style 5855 inhibit the generation of free asbestos fiber or dust.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR Style 5855 is black and has a slight characteristic odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves substantial quantities, self-contained breathing apparatus should be used due to smoke produced, presence of hydrogen chloride and possibly other chlorine bearing combustion products.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Considerable smoke and fumes generated on burning. Some hydrogen chloride and possibly other chlorine bearing combustion products will be generated also.					

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(Continued on reverse side)

Form OSHA-20
Rev. May 72

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	For graphite: 15 mppcf of air. N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binders and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride fumes, carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD Normal landfill. Place waste in plastic bag to reduce generation of asbestos fibers to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None.
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES Not required.		EYE PROTECTION AS generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).	

PAGE (2)

GPO 934-170

Form OSHA-20
Rev. May 72

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by:

H R Hughes
Harold R. Hughes, Senior Chemist

5/22/79

MSDS 7/28/81
Style 176
Braided Asbestos Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 176 Braided Asbestos Packing	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Braids and core contain substantial quantities of Chrysotile (white) asbestos fiber. The braids and core are treated with an elastomeric cement which inhibits the generation of free asbestos fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Regular Style 176 is black and has a slight characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self-contained breathing apparatus should be used due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	For Graphite: 15 mppcf of air. N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES	N/A to the braid.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.
(SEE ATTACHED SHEET)	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
	No special requirement.	None
	No special requirement.	None
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is suggested.		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001)

PAGE (2) **NOTE:** The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
H.R. Hughes, Supvr., Chemist

Form OSHA-20
Rev. May 72

7/28/81

MSDS 9/16/81
Style 7355
Bonded Asbestos Plastallic
Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock, Inc., Compression Packing Divn.	EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551	
CHEMICAL NAME AND SYNONYMS Synthetic Hydrocarbon Bonded Asbestos Fibrous Plastallic Packing Style 7355	
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 30% Chrysotile (white) asbestos and about 53% graphite. The packing contains a binder which inhibits the generation of free asbestos fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black rings - slight odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lei	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves significant quantities of product, self contained breathing apparatus should be worn due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces significant amount of smoke when large quantities are involved in a fire.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the pkg. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the packing. For Graphite: 15 MPPCF of air.
EMERGENCY AND FIRST AID PROCEDURES	
Generally N/A to the packing. In case of particles of packing getting in the eyes, flush with water and contact a physician as a precaution.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite product.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Smoke, carbon monoxide under certain circumstances. There may be others.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	unknown to us.
None			

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill. Place waste in plastic bag.	
comply with any local or state regulations covering disposal of asbestos products.	
SEE ATTACHED SHEET	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
No special requirement under normal conditions of use.			
VENTILATION	LOCAL EXHAUST	SPECIAL	
	MECHANICAL (General)	OTHER	
	No special requirement	None	
	No special requirement	None	
PROTECTIVE GLOVES		EYE PROTECTION	
Not required		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean dry place away from strong oxidizing agents. Normal wash up after handling is recommended.	
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (21CFR 1910.1001).	

PAGE (2) NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied is made.

Form OSHA-20
Rev. May 72

Prepared by: H R Hughes
Harold R. Hughes, Supvr., Chemist

9/16/81

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.
Garlock Inc., Compression Packing Division		(315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code)		
Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS
N/A		Style 230 Braided Blue Asbestos Packing
CHEMICAL FAMILY	FORMULA	
N/A	N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Crocidolite (Blue) asbestos is present to the extent of about 76.5% in 1/2" Style 230. The asbestos yarn is thoroughly impregnated with a hydrocarbon type lubricant which inhibits generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR Regular Style 230 is blue-grey and has a slight characteristic odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Flash Point of Hydrocarbon Binder is about 415°F.	FLAMMABLE LIMITS	Lel	Uel
		Unknown		
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self-contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	SPECIAL	
	MECHANICAL (General)	OTHER	
No special requirement.		None.	
No special requirement.		None	
PROTECTIVE GLOVES		EYE PROTECTION	
Not required.		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is recommended.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph

1910.1001).
PAGE (2)

GPO 934-170

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
Harold R. Hughes, Senior Chemist

10/12/79

MSDS 10/12/79
Style 730
Braided Asbestos Packing
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid. For graphite: 15 mppcf of air.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances.			
There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) NO special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)	No special requirement.	None.
PROTECTIVE GLOVES			OTHER
	Not required.		None.
OTHER PROTECTIVE EQUIPMENT		EYE PROTECTION	
Not required. Normal wash up after handling is recommended.		As generally good practice, safety glasses may be worn.	

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

10/12/79

Form OSHA-20

Rev. May 72

GPO 934-170

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 730 Braided Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

	%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about 50% in 1/2" Style 730. The asbestos yarn is thoroughly impregnated with vegetable oil, Marine Oil, petroleum oil and graphite lube which inhibits generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Regular Style 730 is black and has a characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Flash Point of Binder is about 530°F (C.O.C.)	FLAMMABLE LIMITS	LeI	UeI
		Unknown		
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self-contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.				

MSDS 11/18/79
Style 5875
Braided White Asbestos Packing
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the braid. For free asbestos fibers. Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE

None under normal conditions of use. Overexposure to thermal decomposition products of polytetrafluoroethylene may cause flu-like symptoms. This is a temporary condition.

EMERGENCY AND FIRST AID PROCEDURES

Not necessary under normal conditions of use. For overexposure to thermal decomposition products of polytetrafluoroethylene, move to fresh air. Contact physician for treatment.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride fumes, carbonyl fluoride and perfluorocarbon olefins are evolved at high temperatures. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) NO special requirement. Mouth and nose mask may be worn when cutting large quantities.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	No special requirements.	None
	MECHANICAL (General)	OTHER
	No special requirements.	None
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT	Not required. Normal wash up after handling is recommended.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA regulations (29CFR, Paragraph 1910.1001).

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CPD 934-110

Form OSHA-20

Rev. May 72

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

11/18/79

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.
Garlock Inc. Compression Packing Division		(315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code)		
Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS
N/A		Style 5875 Braided White Asbestos Packing
CHEMICAL FAMILY	FORMULA	
N/A		

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (White) asbestos is present to the extent of about 45-50% in 1/2" Style 5875. The asbestos yarn is impregnated with polytetrafluoroethylene which inhibits the generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Pale grey to white Braided Packing.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	LeI	UeI
		N/A		
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke and hydrogen fluoride fumes produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces smoke and decomposition of the polytetrafluoroethylene produces hydrogen fluoride fumes.			

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MSDS 11/28/79
Style 166
Packing Rings
Prepared by H. Hughes

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the ring. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE N/A to the rings. For Graphite: 15 mppcf of air.

EMERGENCY AND FIRST AID PROCEDURES N/A to the rings.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATABILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain conditions. Possibly some acrylonitrile monomer fumes. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.

WASTE DISPOSAL METHOD Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)			
No special requirement under normal conditions of use.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None.
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT		Not required.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

OTHER PRECAUTIONS
Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001). GPO 934-130

PAGE (2)
NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

Form OSHA-20
Rev. May 72

11/28/79

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division	EMERGENCY TELEPHONE NO. (315) 483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551	
CHEMICAL NAME AND SYNONYMS Nitrile Elastomer	TRADE NAME AND SYNONYMS Style 166
BONDED ASBESTOS FIBROUS PLASTALIC PACKING PACKING RINGS	
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Style 166 contains about 28-30% of Chrysotile (White) Asbestos. It also contains a Nitrile elastomer. The elastomer does not present a hazard in itself, but there is a possibility that acrylonitrile monomer may be generated on burning the product.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black Rings - Slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke produced and possible production of acrylonitrile monomer fumes.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces considerable smoke and fumes when large quantities are involved in a fire. Burning may generate some acrylonitrile monomer fumes.					

MSDS 1/18/80
Style 150
Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Divn.	EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551	
CHEMICAL NAME AND SYNONYMS Rolled rubber impregnated asbestos fabric over core of asbestos fabric and red SBR elastomer compound	TRADE NAME AND SYNONYMS Style 150
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains significant quantity of Chrysotile (White) Asbestos					
The asbestos fabric is impregnated with an elastomer compound					
which inhibits the generation of free asbestos fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Rolled rubber impregnated asbestos fiber over core - slight odor. Surface Graphite makes product black.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE N/A to the product. For free asbestos fiber: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.	
EFFECTS OF OVEREXPOSURE For Graphite: 15 MPPCF of air. N/A to the product.	
EMERGENCY AND FIRST AID PROCEDURES	
None,	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound and organic portion of yarn in fabric.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID to us.
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fibers to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirements. Wear mouth and nose mask when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).	

PAGE (2) NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied is made.

Prepared by: H.R. Hughes

H.R. Hughes, Senior Chemist

Form OSHA-20 Rev. May 72

1/18/80

MSDS 1/18/80
Style 5865
Braided Asbestos Packing
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	For Mica: 20 MPPCF of air.
N/A to the braid.	
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binders and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride fumes, carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill. Place waste in plastic bag to reduce generation of asbestos fibers to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES		EYE PROTECTION	
Not required.		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Para. 1910.1001).	

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made. Form OSHA-20 Rev. May 72

Prepared by:

HR Hughes
Harold R. Hughes, Senior Chemist

1/18/80

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 5865 Braided Asbestos Packing (with Core)	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Braid and core contain substantial quantities of Chrysotile (white) asbestos fiber. Braid and core contain Mica. Core contains neoprene elastomer. The elastomer does not present a hazard in itself, but some chlorine bearing combustion products will be generated on burning. Binders in Style 5865 inhibit the generation of free asbestos fiber or dust.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR Style 5865 is tan and has a slight characteristic odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves substantial quantities, self-contained breathing apparatus should be used due to smoke produced, presence of hydrogen chloride and possibly other chlorine bearing combustion products.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Considerable smoke and fumes generated on burning. Some hydrogen chloride and possibly other chlorine bearing combustion products will be generated also.					

MSDS 2/14/80
Style 5861
Braided White Asbestos Packing
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	None under normal conditions of use. Over exposure to thermal decomposition products of polytetrafluoroethylene may cause flu-like symptoms. This is a temporary condition.
EMERGENCY AND FIRST AID PROCEDURES	Not necessary under normal conditions of use. For overexposure to thermal decomposition products of polytetrafluoroethylene, move to fresh air.
Contact physician for treatment.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite organic portion of yarn.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride fumes, carbonyl fluoride and perfluorocarbon olefins are evolved at high temperatures. There may be others -			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID unknown to us.
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD Normal landfill: place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirements.	SPECIAL NONE
	MECHANICAL (General)	No special requirements.	OTHER NONE
PROTECTIVE GLOVES Not required.		EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is recommended.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean dry place away from strong oxidizing agents.
OTHER PRECAUTIONS Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA regulations (29CFR, Para. 1910.1001).	

PAGE (2). NOTE:

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Form OSHA-20
Rev. May 72

Prepared by:

H.R. Hughes
H.R. Hughes, Senior Chemist.

2/14/80

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 5861 Braided White Asbestos Packing	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (White) asbestos is present to the extent of about 46% in					
1/2" Style 5861. The Asbestos yarn is impregnated with polytetrafluoroethylene which inhibits the generation of free asbestos fiber or dust.					
Asbestos content will vary somewhat in other sizes.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Pale grey to white braided packing.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke and hydrogen fluoride fumes produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces smoke and decomposition of the polytetrafluoroethylene produces hydrogen fluoride fumes and other fluoride containing fumes.				

MSDS 2/14/80

Style 5876

Braided White Asbestos Packing

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	None under normal conditions of use. Over exposure to thermal decomposition products of polytetrafluoroethylene may cause flu-like symptoms.
	This is a temporary condition.
EMERGENCY AND FIRST AID PROCEDURES	Not necessary under normal conditions of use. For over exposure to thermal decomposition products of polytetrafluoroethylene, move to fresh air.
	Contact physician for treatment.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite lubricant and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)	Avoid storage or contact with strong oxidizing agents.		
HAZARDOUS DECOMPOSITION PRODUCTS	Hydrogen fluoride fumes, carbonyl fluoride and per-fluorocarbon olefins are evolved at high temperatures. There may be other unknown to us.		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	No special requirement. Mouth and nose mask may be worn when cutting large quantities.		
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL NONE
	MECHANICAL (General)	No special requirement.	OTHER NONE
PROTECTIVE GLOVES	Not required.		EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT	Not required. Normal wash up after handling is recommended.		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Para. 1910.1001).

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made. Form OSHA-20 Rev. May 72

Prepared by: H.R. Hughes
H.R. Hughes, Senior Chemist

2/14/80

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Ailing Drive - Sodus, N.Y. 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 5876 Braided White Asbestos Packing.
CHEMICAL FAMILY N/A	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about 45-50% in 1/2" Style 5876. The asbestos yarn is impregnated with polytetrafluoroethylene which inhibits the generation of free asbestos fiber or dust. Product also contains a petroleum base break in lubricant.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Pale grey to white braided packing.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Flash point of lubricant (C.O.C.) is about 395° F.	FLAMMABLE LIMITS N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke and hydrogen fluoride fumes produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces smoke and decomposition of the polytetrafluoroethylene produces hydrogen fluoride fumes.			

MSDS 3/10/80
Style 234
Braided Asbestos Packing
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	For graphite: 15 mppcf of air. N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL NONE.
	MECHANICAL (General)	No special requirement.	OTHER NONE.
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29 CFR, Para. 1910.1001)	

PAGE (2)

CPO 934-110

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by:

H.R. Hughes, Supvr., Chemist 3/10/80

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Ailing Drive - Sodus, New York 14511		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 234 Braided Asbestos Packing.	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about 43.5% in 5/16" Style 234. The asbestos yarn is thoroughly impregnated with a petrolatum lubricant and graphite which inhibits generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Style 234 is black and has a slight characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Flash Point of Pet- roleum binder is about 592°F. (C.O.C.)	FLAMMABLE LIMITS	Lower	Upper
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.			

MSDS 3/17/80
Style 536
Chevron C, T & B Rings
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the rings. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeters of air.
EFFECTS OF OVEREXPOSURE	N/A to the rings.
EMERGENCY AND FIRST AID PROCEDURES	N/A to the rings.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound and organic portion of yarn in fabric.
INCOMPATABILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain conditions. Possibly some acrylonitrile monomer fumes. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill: Place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL NONE
	MECHANICAL (General)	No special requirement.	OTHER NONE
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Para. 1910.1001)	

PAGE (2) **NOTE:** The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made. Form OSHA-20 Rev. May 72

Prepared by: H.R. Hughes 3/17/80
H.R. HUGHES, Supvr., Chemist

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME GARLOCK INC.	EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division St., Palmyra, N.Y. 14522	
CHEMICAL NAME AND SYNONYMS Nitrile rubber compd	TRADE NAME AND SYNONYMS Style 536
CHEMICAL FAMILY impregnated asbestos fabric.	
FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 536 contains about 53% of Chrysotile (White) Asbestos.					
It also contains a Nitrile elastomer. The elastomer does not					
present a hazard in itself, but there is a possibility that					
acrylonitrile monomer may be generated on burning the product.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black elastomer compound and fabric rings - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None when fire involves large quantities of product. self contained breathing apparatus should be used due to smoke produced and possible production of acrylonitrile monomer fumes				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke and fumes when large quantities are involved in a fire. Burning may generate some acrylonitrile monomer fumes.				

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME GARLOCK, INC.	EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street Palmyra, N. Y. 14522	
CHEMICAL NAME AND SYNONYMS Wire inserted Asbestos and Neoprene Cmpd. Packing	TRADE NAME AND SYNONYMS Style 7953
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 7953 contains wire inserted asbestos fabric and a Neoprene elastomer. The elastomer does not present a hazard in itself, but some chlorine bearing combustion products will be generated on burning the elastomer.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Product is black and has a slight odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	When fire involves significant quantities of product, self contained breathing apparatus should be used due to smoke produced, some hydrogen chloride fumes and possibly other chlorine bearing combustion products.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Produces considerable smoke and fumes when substantial quantities are burned. Burning will generate some toxic fumes (See above).				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the product. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per Cm ³ of air.
EFFECTS OF OVEREXPOSURE	N/A to the product.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the product. If overcome by fumes from the product in a fire, remove to fresh air and consult a physician if recovery is not prompt.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Some hydrogen chloride fumes, possibly other chlorine bearing decomposition products. Possibly carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	Normal landfills. Place waste in plastic bag to reduce generation of asbestos fiber to a minimum. Comply with any local disposal regulation.

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn if cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirement under normal conditions of use.	SPECIAL
	MECHANICAL (General)	No special requirement under normal conditions of use.	OTHER
PROTECTIVE GLOVES		Not required	EYE PROTECTION AS generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT		Not required.	

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.	
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulation (29CFR1910.1001).	

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

Prepared by: HR Hughes
Harold R. Hughes, Supvr., Chemist

Form OSHA
Rev. May 72

6-14-85
(Date)

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock, Inc.		EMERGENCY TELEPHONE NO. 315-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, N.Y. 14522		
CHEMICAL NAME AND SYNONYMS EPDM Elastomer Bonded Compressed Asbestos Sheet.		TRADE NAME AND SYNONYMS Styles 902, 903, 903S and 904 Compressed Asbestos Sheet.
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
These styles contain in excess of 75% of chrysotile (white) asbestos.					
The asbestos is bound and encapsulated by an elastomeric binder so					
that generation of free asbestos fiber or dust is negligible and					
well below the OSHA Standard for warning requirements.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR White colored sheet - slight characteristic odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke produced.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.					

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeters of air.

EFFECTS OF OVEREXPOSURE N/A to the sheet.

EMERGENCY AND FIRST AID PROCEDURES

N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.

INCOMPATIBILITY (Materials to avoid)

Avoid storage with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS In a fire, carbon monoxide under certain circumstances. There may be others unknown to us.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No special action.

WASTE DISPOSAL METHOD

Normal landfill. Place waste in plastic bag. Comply with any local disposal regulations.

(See attached sheet)

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirement.

VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)		OTHER
	No special requirement.		None.
	No special requirement.		None.

PROTECTIVE GLOVES Not required. EYE PROTECTION As generally good practice, Safety glasses may be worn.

OTHER PROTECTIVE EQUIPMENT Not required.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.

Normal wash up after handling is recommended.

OTHER PRECAUTIONS

Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. 29CFR 1910.1000.

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made. Form OSHA Rev. May 72

Prepared by: Harold R. Hughes, Supvr., Chemist

11/22/85

MSDS 2/28/86
Style 734
Braided Asbestos Packing
Prepared by H. Hughes

N/A - Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock, Inc. Compression Packing Division	EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551	
CHEMICAL NAME AND SYNONYMS Lattice Braided, Grease Impregnated, Asbestos Packing	TRADE NAME AND SYNONYMS Style 734 Braided Asbestos Packing.
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 40% chrysotile (white) asbestos. Packing is					
thoroughly impregnated with a grease lubricant which inhibits					
generation of free asbestos fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER		Lubricant partially soluble.	
APPEARANCE AND ODOR		Style 734 is black and has a characteristic odor.	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Flash point of grease impregnant is about 445°F. (C.O.C.)	FLAMMABLE LIMITS	Lel	Uel
		N/A		
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves significant quantities of product, self contained breathing apparatus should be used due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces considerable smoke when burned.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE

N/A to the braid.

For graphite: 15mppcf of air.

EMERGENCY AND FIRST AID PROCEDURES

N/A to the braid. If overcome by smoke in a fire, remove to fresh air.

If victim is unconscious, exhibits breathing difficulty or if recovery is not prompt, contact a physician at once.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATABILITY (Materials to avoid)			
Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS When burned: Carbon monoxide under certain circumstances. Some hydrocarbons. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No Special Action

WASTE DISPOSAL METHOD

Normal landfill. Place waste in plastic bag. Comply with any local disposal regulation.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.

VENTILATION	LOCAL EXHAUST No special requirement under normal conditions of use.	SPECIAL None.
	MECHANICAL (General) No special requirement under normal conditions of use.	OTHER None.
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses should be worn.
OTHER PROTECTIVE EQUIPMENT Not required.		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

OTHER PRECAUTIONS

Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulation 29CFR 1910.1001.

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made. Form OSHA- Rev. May 72

Prepared by: Harold R. Hughes, Supvr., Chemist

2/28/86

MSDS 5/5/86
Style 7730
Asbestos Fabric Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME

Garlock, Inc.

EMERGENCY TELEPHONE NO.

(315)-597-4811

ADDRESS (Number, Street, City, State, and ZIP Code)

1666 Division Street, Palmyra, New York 14522

CHEMICAL NAME AND SYNONYMS Natural Rubber

TRADE NAME AND SYNONYMS

Compound Impregnated Asbestos Fabric Pkg.

Style 7730

CHEMICAL FAMILY

N/A

FORMULA

N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 40% Chrysotile (white) asbestos. The asbestos					
fabric is impregnated with an elastomer compound which inhibits					
generation of free asbestos fiber or dust. Contains a red					
styrene-butadiene elastomer compound core.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	White elastomer compound impregnated rolled fabric over a red SBR core - Slight odor. Also available graphited.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces considerable smoke when significant quantities are burned.				

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the product.
EFFECTS OF OVEREXPOSURE	N/A to the product.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the product. If overcome by smoke and fumes from a fire, remove to fresh air. If victim is unconscious, exhibits breathing difficulty or if recovery is not prompt, contact a physician for treatment.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame may ignite product.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS In a fire: Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill. Comply with any local disposal regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) No special requirement under normal conditions of use.		
VENTILATION	LOCAL EXHAUST No special requirement under normal conditions of use.	SPECIAL None.
	MECHANICAL (General) No special requirements under normal conditions of use.	OTHER None.
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses should be worn.
OTHER PROTECTIVE EQUIPMENT Not required.		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS Normal wash up after handling is recommended.	

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made. Form OSHA Rev. May 72

Prepared by: Harold R. Hughes, Supvr., Chemist

5/5/86

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 7021 Compressed Asbestos Sheet	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Style 7021 contains in excess of 80% of Chrysotile (White)

Asbestos. The asbestos is bound and encapsulated by an elastomeric binder so that generation of free asbestos fiber or dust is negligible and well below the OSHA Stds. for warning requirements. (See Attached Sheet)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black colored sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LM	UM
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.					

MSDS 2/2/82
Style 7021
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 7006 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 7006 contains in excess of 80% of Chrysotile (White) Asbestos. The asbestos is bound and encapsulated by an elastomeric binder so that generation of free asbestos fiber or dust is negligible and well below the OSHA Stds. for warning requirements. (See attached sheet)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Pale grey-cream colored sheet or gasket - slight characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers. Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the sheet.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS			
Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	
(See attached sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)	No special requirement.	None.
PROTECTIVE GLOVES	Not required.	EYE PROTECTION	As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT		Not required.	

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. (See OSHA Regulations 29CFR, 1910.1001).	

PAGE (2)

OSHA 29-100 Para. 1910.1001).

Form OSHA-20

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

2/2/82

MSDS 2/2/82
Style 7006
Compressed Asbestos Sheet
Prepared by H. Hughes

Addendum to Section II Form OSHA-20

It is our view that our product No. 7005 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. 7005 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations .

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE N/A to the sheet.

EMERGENCY AND FIRST AID PROCEDURES N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.

WASTE DISPOSAL METHOD Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.

(See Attached Sheet)

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None.
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES Not required.		EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.

OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. ----- See OSHA Regulations (29CFR, Paragraph 1910.1001).

NOTE: The information furnished herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

Form OSHA-20.
Rev. May 72

2/2/82

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 7005 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Style 7005 contains in excess of 80% of Chrysotile (White) Asbestos. The asbestos is bound and encapsulated by an elastomeric binder so that generation of free asbestos fiber or dust is negligible and well below the OSHA Std. for warning requirements (See attached sheet)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR Pale grey-cream colored sheet or gasket - slight characteristic odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.					

MSDS 2/2/82
Style 7005
Sheet
Prepared by H. Hughes

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

Distributed by:

Garlock Inc.

EMERGENCY TELEPHONE NO.

(315) 597-4811

ADDRESS (Number, Street, City, State, and ZIP Code)

1666 Division Street, Palmyra, N.Y. 14522

CHEMICAL NAME AND SYNONYMS

Wire inserted compressed asbestos sheet.

TRADE NAME AND SYNONYMS Style 1000

Compressed Asbestos Sheet

CHEMICAL FAMILY

N/A

FORMULA

N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 1000 contains in excess of 50% of Chrysotile (White)					
Asbestos. The asbestos is bound and encapsulated by an					
elastomeric binder so that generation of free asbestos fiber					
or dust is negligible and well below the OSHA Stds. for					
warning requirements. (See attached sheet)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Grey-black colored sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained				
	breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large				
	quantities are burned.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the sheet.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; Place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	
(See Attached Sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirements	SPECIAL NONE
	MECHANICAL (General)	No special requirement	OTHER NONE
PROTECTIVE GLOVES		Not required.	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		Not required.	As generally good practice, safety glasses may be worn.

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents. Handle carefully to avoid cuts by wire insertion.
OTHER PRECAUTIONS	Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. (See OSHA Reg. (29CFR, Para. 1910.1001)

PAGE (2) **NOTE:** The information furnished herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: HR Hughes 2/2/82
 Harold R. Hughes,
 Senior Chemist.

MSDS 2/2/82
Style 1000
Compressed Asbestos Sheet
Prepared by H. Hughes

Addendum to Section II Form OSHA-20

It is our view that our product No. ^{900/}7735 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. ^{900/}7735 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations .

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE N/A to the sheet.

EMERGENCY AND FIRST AID PROCEDURES N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATABILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.

WASTE DISPOSAL METHOD Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum. (See attached sheet).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST		SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT		Not required.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.

OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. (See OSHA Regulations 29CFR, Para.1910.1001)

PAGE (2)

420 934-110

Form OSHA-20

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
H. R. Hughes, Senior Chemist

2/2/82

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Styles 900 & 7735 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
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Style 900/7735 contains in excess of 80% Chrysotile (white) asbestos. The asbestos is bound and encapsulated by an elastomeric binder so that generation of free asbestos fiber or dust is negligible and well below the OSHA Stds. for warning requirements (See attached Sheet).

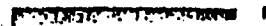
SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Pale grey-cream colored sheet or gasket - slight characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.				

MSDS 2/2/82
Style 900/7735
Compressed Asbestos Sheet
Prepared by H. Hughes



MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME GARLOCK INC.	EMERGENCY TELEPHONE NO. (315)-597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street - Palmyra, N.Y. 14522	
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 7705 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

Product contains about 75% of mixed **Crocidolite (blue)** and **Chrysotile (white)** asbestos. The asbestos is bound and encapsulated by an elastomeric binder so that generation of free asbestos fibers or dust is negligible and well below the OSHA standards for warning requirements (See attached sheet

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____-1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Grey-black colored sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) N/A	FLAMMABLE LIMITS N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE N/A to the sheet.

EMERGENCY AND FIRST AID PROCEDURES N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID to us.
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.

WASTE DISPOSAL METHOD Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.
(See Attached Sheet)

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities, though no known OSHA requirements.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
	No special requirement.	NONE
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.

OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. (See OSHA Regulations (29CFR, Para. 1910.1001))

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made. Form OSHA-20 Rev. May 72

Prepared by: H.R. Hughes
H.R. Hughes, Supvr., Chemist

2/1/82

Colt Industries



Garlock
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315/597-4811

Interoffice

To: L Green

From: HR Hughes, Supvr.,
Chemist

Subject: Material Safety Data Sheet

Style 7705

Date: February 1, 1982

Attached is a copy of the Material Safety Data Sheet for
Style 7705 revised to incorporate the changes requested
by the Law Department.

If you wish additional copies, please advise.

Harold R. Hughes/nw

cc: R Watson

These two items
show the addendum
sheet added to the
MSDS sheets and also
change in wording
requested by Law Dept.

MSDS 2/1/82
Style 7705
Compressed Asbestos Sheet
Prepared by H. Hughes

MSDS 10/12/79
Style 230
Braided Blue Asbestos Packing
Prepared by H. Hughes

N/A = Not Application

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 5880 Braided Blue Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Crocidolite (blue) asbestos is present to the extent of about 57% in 1/2" Style 5880. The asbestos yarn is impregnated with polytetrafluoroethylene which inhibits the generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		N/A
APPEARANCE AND ODOR Blue colored Braided Packing with white areas.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	Lel	Uel
		N/A		
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical				
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke and hydrogen fluoride fumes produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces smoke and decomposition of the polytetrafluoroethylene produces hydrogen fluoride fumes.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the braid. For free asbestos fibers: not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE
None under normal conditions of use. Overexposure to thermal decomposition products of polytetrafluoroethylene may cause flu-like symptoms. This is a temporary condition.

EMERGENCY AND FIRST AID PROCEDURES
Not necessary under normal conditions of use. For overexposure to thermal decomposition products of polytetrafluoroethylene, move to fresh air. Contact physician for treatment.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Avoid direct flame.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride fumes, carbonyl fluoride and perfluorocarbon olefins are evolved at higher temperatures. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
No special action.

WASTE DISPOSAL METHOD
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	No special requirements.	None
	MECHANICAL (General)	OTHER
	No special requirements.	None
PROTECTIVE GLOVES	Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT	Not required. Normal wash up after handling is suggested.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store in clean dry place away from strong oxidizing agents.

OTHER PRECAUTIONS
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA regulations (29CFR, Paragraph 1910.1001).

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
H. R. Hughes, Senior Chemist

9/11/79

Form OSHA-20
Rev. May 72

GPO 834-110

MSDS 9/11/79
Style 5880
Braided Blue Asbestos Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 731 Braided Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about					
57% in 1/2" Style 731. The asbestos yarn is thoroughly impreg-					
nated with vegetable oil, Marine Oil and graphite lubricant					
which inhibits generation of free asbestos fiber or dust.					
Asbestos content will vary somewhat in other sizes.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Regular Style 731 is black and has a characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Flash Point of Binder is about 530°F. (C.O.C.)	FLAMMABLE LIMITS	LeI	UeI
		Unknown		
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self-contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid. For graphite: 15 mppcf of air.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; waste may be placed in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None.
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).	

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GP 934-110

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

9/11/79

MSDS 9/11/79

Style 731

Braided Asbestos Packing

Prepared by H. Hughes

111
111
111

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 233 Braided Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about 42% in 1/2" Style 233. The asbestos yarn is thoroughly impregnated with a petrolatum lubricant and graphite which inhibits generation of free asbestos fiber or dust. Asbestos content will vary somewhat in other sizes.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR Regular Style 233 is black and has a slight characteristic odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Flash Point of Petroleum Binder is about 392°F. (C.O.C.)	FLAMMABLE LIMITS Unknown.	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self-contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.			

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid. For graphite: 15 mppcf of air.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances.			
There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)	No special requirement.	None
PROTECTIVE GLOVES		OTHER	None
	Not required.		
EYE PROTECTION		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001).

PAGE (2)

CPD 934-110

Form OSHA-20

Rev. May 72

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

9/11/79

MSDS 9/11/79
Style 233
Braided Asbestos Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS, Style 737 Braided Asbestos Packing	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about					
60% in 1/2" Style 737. The asbestos yarn is thoroughly im-					
pregnated with a petrolatum lubricant which inhibits genera-					
tion of free asbestos fiber or dust. Asbestos content will vary					
somewhat in other sizes.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Regular Style 737 is brown colored and has a slight characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Flash Point of Petroleum Binder is about 592°F. (C.O.C.)	FLAMMABLE LIMITS	Lower	Upper
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self-contained breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.			

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE

N/A to the braid.

EMERGENCY AND FIRST AID PROCEDURES

N/A to the braid.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No special action.

WASTE DISPOSAL METHOD

Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.

VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL	None.
	MECHANICAL (General)	No special requirement.	OTHER	None.
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT		Not required. Normal wash up after handling is suggested.		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in clean, dry place, away

from strong oxidizing agents.

OTHER PRECAUTIONS

Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph

1910.1001).

GPO 934-110

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
H. R. Hughes, Senior Chemist

9/10/79

MSDS 9/10/79
Style 737
Braided Asbestos Packing
Prepared by H. Hughes

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315) 483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 5354 Braided Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

	%	TLV (Units)
<u>Chrysotile (white) asbestos is present to the extent of about 65% in 1/2" Style 5354. The asbestos yarn is impregnated with a petroleum base lubricant which inhibits generation of free asbestos fiber or dust. Asbestos content will vary depending on size and whether or not wire is present.</u>		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR Style 5354 is black and has a slight characteristic odor.**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (Method used) <u>Flash Point of Petroleum lubricant is about 510°F.</u>	FLAMMABLE LIMITS	Lel	Uel
		<u>Unknown</u>	
EXTINGUISHING MEDIA <u>Water, foam, carbon dioxide, dry chemical.</u>			
SPECIAL FIRE FIGHTING PROCEDURES <u>None. When fire involves large quantities of product, self-contained breathing apparatus would be desirable due to smoke produced.</u>			
UNUSUAL FIRE AND EXPLOSION HAZARDS <u>None. Produces thick smoke when large quantities are burned.</u>			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES	N/A to the braid.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) NO special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	NO special requirement.	SPECIAL None
	MECHANICAL (General)	NO special requirement.	OTHER None
PROTECTIVE GLOVES	Not required	EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph	

1910.1001).
PAGE (2)

GPO 334-110

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

9/4/79

MSDS 9/4/79
Style 5354
Braided Asbestos Packing
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

THE FOLLOWING VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air
EFFECTS ON ENVIRONMENT N/A to the sheet.

AGENCY AND FIRST AID PROCEDURES

N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.

DISPOSAL METHOD Normal landfill; waste may be placed in plastic bag

to reduce generation of asbestos fiber to a minimum.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) NO special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	NO special requirement.	SPECIAL None
	MECHANICAL (General)	NO special requirement.	OTHER None
PROTECTIVE GLOVES Not required.		EYE PROTECTION AS generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Store in clean, dry place away from strong oxidizing agents.

OTHER PRECAUTIONS: Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Paragraph 1910.1001) p. 111

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Form OSHA-20

Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

8/6/79

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the sheet.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS			
Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	
(See Attached Sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		EYE PROTECTION	
Not required.		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place away from strong oxidizing agents.	
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001).	

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OSHA 29-100

Form OSHA-20

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

2/2/82

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 7735 S-1 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 7735 S-1 contains in excess of 80% Chrysotile (white)					
asbestos. The asbestos is bound and encapsulated by an					
elastomeric binder so that generation of free asbestos fiber					
or dust is negligible and well below the OSHA Stds. for					
warning requirements. (See attached sheet)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	White colored sheet or gasket - slight characteristic odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.				

MSDS 2/2/82
Style 7819
Compressed Asbestos Sheet
Prepared by H. Hughes

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 7819 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

% TLV (Units)

Style 7819 contains in excess of 80% of Chrysotile (White)

Asbestos. The asbestos is bound and encapsulated by an

elastomeric binder so that generation of free asbestos fiber

or dust is negligible and well below the OSHA Standards

for warning requirements. (See attached sheet).

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black colored sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE N/A to the sheet.

EMERGENCY AND FIRST AID PROCEDURES N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATABILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.

WASTE DISPOSAL METHOD Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.
(See Attached Sheet)

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES Not required.		EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001)

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UFG 924-110

Form OSHA-20

Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H.R. Hughes
H. R. Hughes, Senior Chemist

2/2/82

Addendum to Section II Form OSHA-20

It is our view that our product No. 7819 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. 7819 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations .

MSDS 2/2/82
Style 8748
Compressed Asbestos Sheet
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	N/A to the sheet.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, under certain conditions. Possibly some acrylonitrile monomer fumes. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum. (See attached sheet)

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001)	

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GPO 934-110

Form OSHA-20

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

2/2/82

U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

N/A = Not Applicable.

MATERIAL SAFETY DATA SHEETRequired under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock, Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 8748 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 8748 contains in excess of 70% of Chrysotile (white) asbestos.					
It also contains a Nitrile elastomer. The elastomer does not					
present a hazard in itself, but there is a possibility that					
acrylonitrile monomer may be generated on burning the product.					

(See Attached Sheet)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Dark grey to black sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke produced and possible production of acrylonitrile monomer fumes.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces considerable smoke and fumes when large quantities are involved in a fire. Burning may generate some acrylonitrile monomer fumes.					

MSDS 2/2/82
Style 9057
Compressed Asbestos Sheet
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the sheet.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride fumes. Possibly carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum. (See attached sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST		SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES		EYE PROTECTION	
Not required.		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001)	

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GPO 934-110

Form OSHA-20

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

2/2/82

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock, Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 9057 Compressed Asbestos Sheet	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 9057 contains in excess of 70% of Chrysotile (white) asbestos.					
It also contains neoprene elastomer. The elastomer does not					
present a hazard in itself, but some chlorine bearing combus-					
tion products will be generated on burning the elastomer.					

(See Attached Sheet)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black colored sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced and presence of hydrogen chloride and possibly other chlorine bearing combustion products.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces considerable smoke and fumes when large quantities are involved in a fire. Burning will generate hydrogen chloride and other chlorine bearing products.					

MSDS 9/27/82

Style 5525

Braided White Asbestos Packing

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE
None under normal conditions of use. Over exposure to thermal decomposition products of polytetrafluoroethylene may cause flu-like symptoms. This is a temporary condition.

EMERGENCY AND FIRST AID PROCEDURES
Not necessary under normal conditions of use. For over exposure to thermal decomposition products of polytetrafluoroethylene, move to fresh air.

Contact physician for treatment.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite organic portion of yarn and break-in lubricant.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing Agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride fumes, carbonyl fluoride and perfluorocarbon olefins are evolved at high temp. there may be others			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID unknown to us.
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No special action.

WASTE DISPOSAL METHOD
Normal landfill; place waste in plastic bag to reduce any chance of generation of fiber to a minimum. (See attached sheet)

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.

VENTILATION	LOCAL EXHAUST	No special requirements	SPECIAL None
	MECHANICAL (General)	No special requirements	OTHER None

PROTECTIVE GLOVES Not required

EYE PROTECTION As generally good practice, safety glasses may be worn.

OTHER PROTECTIVE EQUIPMENT
Not required. Normal wash up after handling is recommended.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store in clean, dry place, away from strong oxidizing agents.

OTHER PRECAUTIONS
Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. (See OSHA Regulations 21CFR, Para. 1910.101)

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

Form OSHA
Rev. May 72

Prepared by: Harold R. Hughes, Supvr., Chemist

9/27/8

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock, Inc. Compression Packing Divn.		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 5525 Braided White Asbestos Packing	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of 70+ %.					
Yarn is impregnated with polytetrafluoroethylene which inhibits generation of free asbestos fiber or dust. Style 5525 also available with wire inserted yarn and with petroleum base break-					
in lubricant. (See attached sheet)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Grey to white braided packing		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) About 395° F. for break-in lube.	FLAMMABLE LIMITS N/A	Let	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke and fluoride containing compounds produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces smoke. Decomposition of the polytetrafluoroethylene produces hydrogen fluoride and other fluoride containing fumes.			

MSDS 10/1/82
Style 9533
Compressed Asbestos Sheet
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag to reduce generation of asbestos fibers to a minimum. (See attached sheet).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)		No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.	
VENTILATION	LOCAL EXHAUST	SPECIAL	None
	MECHANICAL (General)	OTHER	None
PROTECTIVE GLOVES		EYE PROTECTION	
Not required.		AS generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations-

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29 CFR 1910.1001 (29CFR, Para. 1910.1001)

Form OSHA-20

NOTE: The information furnished herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Supvr., Chemist

10/1/82

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 9533 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 9533 contains in excess of 80% of Chrysotile (White)					
Asbestos. The asbestos is bound and encapsulated by an					
elastomeric binder so that generation of free asbestos fiber					
or dust is negligible and well below the OSHA Stds. for					
warning requirements. (See Attached Sheet)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black colored sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LeI	UeI
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.				

MSDS 1/7/83
Style 900 T
Compressed Asbestos Sheet
Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE N/A to the sheet.

EMERGENCY AND FIRST AID PROCEDURES N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATABILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED No special action.

WASTE DISPOSAL METHOD Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum. (See attached sheet).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) NO special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.

VENTILATION	LOCAL EXHAUST	NO special requirement.	SPECIAL	None
	MECHANICAL (General)	NO special requirement.	OTHER	None

PROTECTIVE GLOVES Not required. EYE PROTECTION As generally good practice, safety glasses may be worn.

OTHER PROTECTIVE EQUIPMENT Not required.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents.

OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. (See OSHA Regulations 29CFR, Para.1910.1001)

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420 934-100

Form OSHA-20

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Supvr., Chemist

1/7/83

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Styles 900T Compressed Asbestos Sheet.	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

Style 900T - contains in excess of 80% Chrysotile (white) asbestos.
The asbestos is bound and encapsulated by an elastomeric binder so
that generation of free asbestos fiber or dust is negligible and well
below the OSHA Stds. for warning requirements (See attached Sheet).

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Pale grey-cream colored sheet or gasket - slight characteristic odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.					

MSDS 1/17/83
Style 7021 T
Compressed Asbestos Sheet
Prepared by H. Hughes

REMOVED

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 7021T Compressed Asbestos Sheet.	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

	%	TLV (Units)
Style 7021T contains in excess of 80% of Chrysotile (White)		
Asbestos. The asbestos is bound and encapsulated by an		
elastomeric binder so that generation of free asbestos fiber		
or dust is negligible and well below the OSHA Stds. for		
warning requirements. (See Attached Sheet)		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ = 1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR **Black colored sheet or gasket - slight odor.**

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained					
breathing apparatus would be desirable due to smoke produced.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.					

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE N/A to the sheet.

EMERGENCY AND FIRST AID PROCEDURES N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag to reduce generation of asbestos fibers to a minimum. (See attached sheet).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		Not required.	EYE PROTECTION AS generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT		Not required.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations-

PAGE (2)

320 134-110 (29CFR, Para. 1910.1001)

Form OSHA-20

Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Supvr., Chemist

1/7/83

MSDS 5/4/83
Style 9532
Compressed Asbestos Sheet
Prepared by H. Hughes

MSDS 6/16/83

Style 7020

Molded Packing Ring

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the pkg. For free asbestos fibers: Nor more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the packing. For graphite: 15 mppcf of air.
EMERGENCY AND FIRST AID PROCEDURES	
Generally N/A to the packing. If particles get in the eyes, seek medical attention as a precaution.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite product.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Some hydrogen chloride fumes. Carbon monoxide under certain circumstances and smoke. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No Special Action.	
WASTE DISPOSAL METHOD	
Normal landfill; Place waste in plastic bag.	
Comply with any local or state regulations covering disposal of asbestos products. Asbestos fiber in this product is bonded by elastomer and is not loose. (see attached sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
No special requirement under normal conditions of use.			
VENTILATION	LOCAL EXHAUST	No special requirement	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		Not required	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place. away from strong oxidizing agents. Normal wash up after handling is recommended.	
OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, protect against unnecessary release of fiber when cutting or handling.	
See OSHA Regulations (21CFR, Para. 1910.1001).	

PAGE (2) NOTE:

GPO 934-110

Form OSHA-20

The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied is made.

Prepared by: H.R. Hughes
H.R. Hughes, Supvr.,
Chemist

DATE
6/16/83

NA = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock, Inc., Compression Packing Div.		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS Neoprene-SBR elastomer bonded Asb. Fibrous Plastallic		TRADE NAME AND SYNONYMS Style 7020 Molded Packing Rings.
CHEMICAL FAMILY N/A	packing	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Contains about 30% Chrysotile (white) asbestos and about 46% graphite. It also contains a neoprene elastomer which does not present a hazard in itself, but some chlorine bearing combustion products will be generated on burning. Contains small amount (about 3%) mineral oil.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ #1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR Black Solid Rings - Slight Odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves significant quantities of product, self contained breathing apparatus should be used due to smoke produced, presence of hydrogen chloride fumes and possibly other chloride bearing combustion products.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces considerable smoke and fumes when large quantities are involved in a fire. Burning will generate hydrogen chloride and other chlorine bearing products.					

Style 266

THE UNIVERSITY OF CHICAGO

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SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid. For graphite: 15 mppcf of air.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	
(See attached sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)	No special requirement.	NONE.
PROTECTIVE GLOVES			OTHER
	Not required.		NONE.
EYE PROTECTION As generally good practice, safety glasses may be worn.			
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29 CFR, Para.	

PAGE (2)

CPD 934-110

1910.1001

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by:

W.R. Hughes

W.R. Hughes, Subvr.. Chemist 8/22/83

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Ailing Drive - Sodus, New York 14511		
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 266 Braided Asbestos Packing.	
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of about 65 - 75% in Style 266. The asbestos yarn is impregnated with a petroleum oil and graphite which inhibits generation of free asbestos fiber or dust.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Black braided packing - slight odor. Coil or rings.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Flash Point of petroleum oil is about 555°F. (C.O.C.)	FLAMMABLE LIMITS Unknown	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.			

MSDS 9/7/83
Style 736
Braided Blue Asbestos Packing
Prepared by H. Hughes

01/01/83

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air. For graphite: 15 mppcf of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite lubricant
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD Normal landfill; place waste in plastic bag to reduce generation of free asbestos fiber. (See attached sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement	SPECIAL None
	MECHANICAL (General)	No special requirement	OTHER None
PROTECTIVE GLOVES Not required		EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is recommended.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place, away from strong oxidizing agents.	
OTHER PRECAUTIONS Product has a binder (lubricant) however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR, Para. 1910.1001).	

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made. Form OSHA-20 Rev. May 72

Prepared by: Harold R. Hughes, Supvr., Chemist

9/7/83

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship-Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917).

SECTION I

MANUFACTURER'S NAME Garlock, Inc. Compression Packing Division	EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive,odus, New York 14511	
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 736 Braided Blue Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Crocidolite (Blue) asbestos is present to the extent of 40-60% depending on size. The asbestos is thoroughly impregnated with a petrolatum base lubricant and graphite which inhibits the generation of free asbestos fiber or dust.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Style 736 is black with slight odor-coil and ring form.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Flash point of lubricant is about 415°F. (C.O.C Method)	FLAMMABLE LIMITS N/A	Loi	Uoi
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus should be used due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces thick smoke when large quantities are burned.			

MSDS 4/27/84

Style 644

Braided Asbestos Packing

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers/cubic centimeter of air. For airborne lead: 30mcg/cc of air
EFFECTS OF OVEREXPOSURE	N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid. Avoid generation and ingestion of free asbestos fibers and/or lead particles.	

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn
INCOMPATIBILITY (Materials to avoid)			
Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Possibly toxic lead vapors under conditions of high heat. Possibly carbon monoxide under certain circumstances. There may be others unknown to US.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	Normal landfill. Place waste in plastic bag to reduce generation of asbestos fiber to a minimum.
(See attached sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	SPECIAL	None
	MECHANICAL (General)	No special requirement	OTHER
			None
PROTECTIVE GLOVES Not required.		EYE PROTECTION As generally good practice safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required. Normal wash up after handling is recommended.			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Store in clean, dry place, away from strong oxidizing agents. Lead will not become airborne under normal conditions of use. See OSHA Regulations (29 CFR 1910.1025) for information on exposure to lead.	
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR 1910.1001)	

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made. Form OSHA Rev. May 72

Prepared by: Harold R. Hughes, Supvr., Chemist

4/27/84

N/A = Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock, Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Ailing Drive, Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS Square Braided, Lead Wire Inserted Asbestos Yarn Packing		TRADE NAME AND SYNONYMS Style 644 Braided Asbestos Packing
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains Chrysotile (white) asbestos yarn with lead wire. Yarn is impregnated with a petroleum lubricant and graphite which inhibits generation of free asbestos fiber or dust.					
(See attached sheet)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Black braided packing - slight odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Flash Point of petroleum is about 592°F. (C.O.C.)	FLAMMABLE LIMITS Unknown	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES None, If fire involves substantial quantities, self contained breathing apparatus should be used due to smoke and possibly toxic lead vapors.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Lead melts at about 621.1°F. (327.3°C). Lead vapors may be given off even though lead is not heated to its boiling point.			

MSDS 5/16/84
Style 256
Braided Packing
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc., Compression Packing Division		EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Ailing Drive - Sodus, New York 14511		
CHEMICAL NAME AND SYNONYMS Multiple carrier Braided White Asbestos Pkg.		TRADE NAME AND SYNONYMS Style 1700 Braided Asbestos Packing.
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Chrysotile (white) asbestos is present to the extent of more					
than 40%. The asbestos yarn is treated with a compound which					
inhibits the generation of free asbestos fiber or dust.					
(see attached sheet)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Style 1700 is black and has a slight characteristic odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	Lower	Upper
		Unknown		
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained			
	breathing apparatus would be desirable due to smoke produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large			
	quantities are burned.			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the braid. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the braid. For graphite: 15 mppcf of air.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid) Avoid storage or contact with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide under certain circumstances. There may be others which are unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum. Comply with any local disposal regulations. (See Attached Sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL NONE.
	MECHANICAL (General)	No special requirement.	OTHER NONE.
PROTECTIVE GLOVES		EYE PROTECTION	
Not required.		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is suggested.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place, away from strong oxidizing agents.
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29 CFR, Para. 1910.1001)	

PAGE (2)

GPO 934-100

Form OSHA-20

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by:

H.R. Hughes
H.R. Hughes, Supvr., Chemist

5/16/84

MSDS 5/17/84
Style 531
Chevron Rings
Prepared by H. Hughes

N/A = Not Applicable Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEETRequired under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME GARLOCK, INC.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS Asbestos fabric and Neoprene Elastomer Compound.		TRADE NAME AND SYNONYMS Style 531 CHEVRON Rings.
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

Style 531 CHEVRON contains a Commercial Grade asbestos fabric.

It also contains neoprene elastomer. The elastomer does not present a hazard in itself, but some chlorine bearing combustion products will be generated on burning the elastomer.

(See Attached Sheet)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR **Black elastomer compound and fabric rings - slight odor.****SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced and presence of hydrogen chloride and possibly other chlorine bearing combustion products.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces considerable smoke and fumes when large quantities are involved in a fire. Burning will generate hydrogen chloride and other chlorine bearing products.					

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the rings. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the rings.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the rings.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride fumes. Possibly carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	
(See Attached Sheet) Comply with any local disposal regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001)	

PAGE (2)

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Form OSHA-20

Rev. May 72

Prepared by: H.R. Hughes
H.R. Hughes, Supervising Chemist

5/17/84

MSDS 7/5/84
Style 9053
Compressed Asbestos Sheet
Prepared by H. Hughes

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration	Form Approved OMB No. 44-R1387
N/A = Not Applicable	
MATERIAL SAFETY DATA SHEET	
Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)	

SECTION I	
MANUFACTURER'S NAME GARLOCK, INC.	EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522	
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 9053 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Style 9053 contains in excess of 75% of Chrysotile (white) asbestos.					
It also contains neoprene elastomer. The elastomer does not present					
a hazard in itself, but some chlorine bearing combustion products					
will be generated on burning the elastomer.					
(See Attached Sheet)					

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Dark grey to black colored sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical		
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained			
breathing apparatus would be desirable due to smoke produced and			
presence of hydrogen chloride and possibly other chlorine bearing com-			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
None. Produces considerable smoke and fumes when large quantities			
are involved in a fire. Burning will generate hydrogen chloride and			
other chlorine bearing products.			

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	N/A to the sheet.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS		Hydrogen chloride fumes. Possibly carbon monoxide under certain circumstances. There may be others unknown to us.	
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum. (See Attached Sheet)

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)		No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.	
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT		Not required.	

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001)

PAGE (2)
 NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.
 Form OSHA-20 Rev. May 72

Prepared by: H.R. Hughes
 H.R. Hughes, Supvr., Chemist

7/5/84

MSDS 8/22/84

Style 631

Twisted Lead Foil With
Asbestos

Prepared by H. Hughes

N/A - Not Applicable

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock, Inc., Compression Packing Divn.	EMERGENCY TELEPHONE NO. (315)-483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551	
CHEMICAL NAME AND SYNONYMS Twisted lead foil over a braided asbestos core.	TRADE NAME AND SYNONYMS Style 631 twisted lead foil with asbestos
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Braided Chrysotile (white) asbestos yarn is present to the extent of about 10% by weight. It is wrapped with twisted lead foil which inhibits generation of free asbestos fiber.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm.Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black metallic surface - distinct odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	If fire involves large quantities, self contained breathing apparatus should be used due to smoke and possible toxic lead vapors.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Lead melts at about 621.1° F. (327.3°). Lead vapor may be given off even though lead is not heated to its boiling point.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE For airborne lead: 30 mcg/cc of air. For graphite; 15mpp/cft air. For asbestos fiber: not more than 2 fibers longer than 5 microns per cc of air.

EFFECTS OF OVEREXPOSURE N/A to the packing.

EMERGENCY AND FIRST AID PROCEDURES Avoid generation and ingestion of lead particles. If accidentally ingested, give emetics, sodium, potassium or magnesium sulfate or give milk or albumin. Call physician at once. If fibers get in the eyes accidentally, irrigate with clear water and contact physician.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will burn off treatment and organic portion of yarn
INCOMPATIBILITY (Materials to avoid) Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Possibly toxic lead vapors under conditions of high heat. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No special action.

WASTE DISPOSAL METHOD

Normal landfill, place waste in plastic bag.

Comply with any local disposal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

No special requirement under normal conditions of use.

VENTILATION	LOCAL EXHAUST	SPECIAL
	No special requirement under normal conditions of use.	None
	MECHANICAL (General)	OTHER
	No special requirement under normal conditions of use.	None

PROTECTIVE GLOVES Not required. **EYE PROTECTION** As generally good practice safety glasses may be worn.

OTHER PROTECTIVE EQUIPMENT

Not required. Normal wash up after handling is recommended.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in clean, dry place away from strong oxidizing agents.

Other Precautions: Lead is present in metallic form. It would not become airborne under normal conditions of use. See OSHA Regs. (29CFR 1910.1025).

Braided asbestos is wrapped with lead, however, protect against unnecessary release of fiber when cutting and/or handling.

See OSHA Regulations (29CFR 1910.1001).

PAGE (2) **NOTE:** The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

Form OSHA
Rev. May 72

Prepared by: Harold R. Hughes, Supvr., Chemist

8/22/84

Addendum to Section II Form OSHA-20

It is our view that our product No. 631 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. 631 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations .

MSDS 2/6/85
Style 162
Braided Packing
Prepared by H. Hughes

N/A = Not Applicable.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387**MATERIAL SAFETY DATA SHEET**Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME Garlock Inc, Compression Packing Division		EMERGENCY TELEPHONE NO. (315) 483-6961
ADDRESS (Number, Street, City, State, and ZIP Code) 300 Alling Drive, Sodus, New York 14551		
CHEMICAL NAME AND SYNONYMS Multiple Carrier Braided Copper Wire Inst Asbestos Yarn Packing		TRADE NAME AND SYNONYMS Style 162 Braided Asbestos Packing (Regular)
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains about 25-30% Chrysotile (White) Asbestos. Packing is impregnated with a lubricant which inhibits generation of fiber or dust. Sizes below 5/16" contain a lead ribbon core.					
The regular version of Style 162 is graphited. Other versions are available.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Lubricant is 10-15% soluble		
APPEARANCE AND ODOR	Regular version is black and has a distinct odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) A portion of the lubricant has a flash point of 320°F	FLAMMABLE LIMITS N/A	Lel	Uel
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.		
SPECIAL FIRE FIGHTING PROCEDURES	If fire involves large quantities, self contained breathing apparatus should be used due to smoke produced and possibly toxic lead vapors.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	Lead (present in sizes below 5/16") melts at about 621.1°F. Lead vapors may be given off even though lead is not heated to its boiling point.		

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE FOR free asbestos fibers: Not more than 2 fibers longer than 5 micrometers/cubic centimeters of air. For airborne lead: 30 mcg/c.c. of air.	
EFFECTS OF OVEREXPOSURE	N/A to the braid.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the braid. If overcome by smoke and fumes in a fire involving quantities of the product, remove to fresh air and contact a physician if recovery is not prompt.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite binder and organic portion of yarn.
INCOMPATIBILITY (Materials to avoid)			
Avoid storage with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Possibly toxic lead vapors (from sizes under 5/16") under high heat conditions. Possibly carbon monoxide under certain conditions. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No special action.	
WASTE DISPOSAL METHOD	
Normal landfill. Place waste in plastic bag to reduce generation of asbestos fiber to a minimum. Comply with any local disposal regulations. (See attached sheet.)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None
PROTECTIVE GLOVES		Not required.	EYE PROTECTION As generally good practice, safety glasses may be worn.
OTHER PROTECTIVE EQUIPMENT			
Not required. Normal wash up after handling is recommended.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in clean, dry place away from strong oxidizing agents. Lead will not become airborne under normal conditions of use. See OSHA Regulations (29CFR1910.1025) for information on exposure to lead.	
OTHER PRECAUTIONS	
Product has a binder, however, protect against unnecessary release of fiber when cutting or handling. See OSHA Regulations (29CFR1910.1001).	

PAGE (2) NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made. Form OSHA Rev. May 72

Prepared by: Harold R. Hughes, Supvr., Chemist

2/6/85

MSDS 6/14/85
Style 7953
Asbestos and Neoprene Compound
Packing
Prepared by H. Hughes

7/14/85

MSDS 2/2/82
Style 7735 S-1
Compressed Asbestos Sheet
Prepared by H. Hughes

Addendum to Section II Form OSHA-20

It is our view that our product No. 7405 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. 7405 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations .

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the sheet.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS			
Carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	
(See Attached Sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	SPECIAL	None
	MECHANICAL (General)	OTHER	None
PROTECTIVE GLOVES		EYE PROTECTION	
Not required		As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT			
Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS	
Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001)	

AGE (2)

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made.

Prepared by: H. R. Hughes

H. R. Hughes, Senior Chemist

Form OSHA-20
Rev. May 72

2/2/82

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Garlock Inc.	EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522	
CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Style 7405 Compressed Asbestos Sheet.
CHEMICAL FAMILY N/A	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

	%	TLV (Units)
Style 7405 contains in excess of 80% of Chrysotile (White) Asbestos. The asbestos is bound and encapsulated by an elastomeric binder so that generation of free asbestos fiber or dust is negligible and well below the OSHA Standards for warning requirements. (See attached sheet)		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black colored sheet or gasket - slight characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	LM	UEL
EXTINGUISHING MEDIA	Water, foam, carbon dioxide, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES	None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Produces thick smoke when large quantities are burned.				

MSDS 2/2/82
Style 7405
Compressed Asbestos Sheet
Prepared by H. Hughes

U.S. DEPARTMENT OF LABOR

Form Approved
OMB No. 44-R1387

N/A = Not Applicable Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEETRequired under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)**SECTION I**

MANUFACTURER'S NAME GARLOCK, INC.		EMERGENCY TELEPHONE NO. (315) 597-4811
ADDRESS (Number, Street, City, State, and ZIP Code) 1666 Division Street, Palmyra, New York 14522		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Style 7228 Compressed Asbestos Sheet
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS		N/A			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

% TLV (Units)

Style 7228 contains in excess of 70% of Chrysotile (white) asbestos. It also contains neoprene elastomer. The elastomer does not present a hazard in itself, but some chlorine bearing combustion products will be generated on burning the elastomer.

(See Attached Sheet)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____=1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Dark grey to black colored sheet or gasket - slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Water, foam, carbon dioxide, dry chemical					
SPECIAL FIRE FIGHTING PROCEDURES None. When fire involves large quantities of product, self contained breathing apparatus would be desirable due to smoke produced and presence of hydrogen chloride and possibly other chlorine bearing combustion products.					
UNUSUAL FIRE AND EXPLOSION HAZARDS None. Produces considerable smoke and fumes when large quantities are involved in a fire. Burning will generate hydrogen chloride and other chlorine bearing products.					

PAGE (1)

(Continued on reverse side)

Form OSHA-20
Rev. May 72

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.
EFFECTS OF OVEREXPOSURE	N/A to the sheet.
EMERGENCY AND FIRST AID PROCEDURES	
N/A to the sheet.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.
INCOMPATIBILITY (Materials to avoid)		Avoid storage with strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride fumes. Possibly carbon monoxide under certain circumstances. There may be others unknown to us.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	No special action.
WASTE DISPOSAL METHOD	
Normal landfill; place waste in plastic bag to reduce generation of asbestos fiber to a minimum.	
(See Attached Sheet)	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.			
VENTILATION	LOCAL EXHAUST	No special requirement.	SPECIAL None
	MECHANICAL (General)	No special requirement.	OTHER None.
PROTECTIVE GLOVES Not required.		EYE PROTECTION As generally good practice, safety glasses may be worn.	
OTHER PROTECTIVE EQUIPMENT Not required.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in clean, dry place away from strong oxidizing agents.
OTHER PRECAUTIONS Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Reg. (29CFR, Para. 1910.1001)	

PAGE (2)

GPO 334-110

Form OSHA-20
Rev. May 72

NOTE: The information furnished herein is accurate to the best of our knowledge but no warranty, express or implied, is made

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

2/2/82

Addendum to Section II Form OSHA-20

It is our view that our product No. 7021 is exempted from OSHA labeling requirements in accordance with the provisions of (29 C.F.R. §1910.1001(g)(2)(i)). Nonetheless, our product No. 7021 carries the OSHA warning label so that our customers may be alerted to the fact that they are purchasing a product containing asbestos.

Addendum to Section VII Form OSHA-20

Waste Disposal Method

Place waste in a plastic bag. Since the asbestos in this product is secured with a binder and is not friable or loose, we do not consider that it presents any disposal hazard under ordinary circumstances. However, the user is responsible for complying with existing local, state and/or federal hazardous waste disposal regulations .

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A to the sheet. For free asbestos fibers: Not more than 2 fibers longer than 5 micrometers per cubic centimeter of air.

EFFECTS OF OVEREXPOSURE

N/A to the sheet.

EMERGENCY AND FIRST AID PROCEDURES

N/A to the sheet.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Direct flame will ignite elastomer compound.

INCOMPATIBILITY (Materials to avoid)

Avoid storage with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide under certain circumstances. There may be others unknown to us.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No special action.

WASTE DISPOSAL METHOD

Normal landfill; place waste in plastic bag to reduce generation of asbestos fibers to a minimum. (See attached sheet).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) No special requirement. Mouth and nose mask may be worn when cutting large quantities. No known OSHA requirements.

VENTILATION	LOCAL EXHAUST		SPECIAL
	MECHANICAL (General)	No special requirement.	None
		No special requirement.	OTHER None

PROTECTIVE GLOVES

Not required.

EYE PROTECTION AS generally good practice, safety glasses may be worn.

OTHER PROTECTIVE EQUIPMENT

Not required.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in clean, dry place away from strong oxidizing agents.

OTHER PRECAUTIONS

Asbestos is bonded by elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations-

GE (2)

320 134-110 (29CFR, Para. 1910.1001)

Form OSHA-20

NOTE: The information furnished herein is accurate to the best of our knowledge, but no warranty, express or implied, is made.

Prepared by: H. R. Hughes
H. R. Hughes, Senior Chemist

2/2/82

MSDS 10/6/86
Styles 900, 900 T, 7005, 7006,
7735, 7735 S-1 & 9532
Compressed Asbestos Sheet.
Prepared by H. Hughes

Exhibit 1
Hughes Deposition
3/22/95

Colt Industries



Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522-9355
315/597-4811

October 20, 1986

Dear Customer:

In complying with the OSHA Hazard Communication Standard 29 CFR 1910.1200, please find enclosed a material safety data sheet covering the Garlock, Inc. style(s) recently requested or shipped to you. Please communicate this information to those end users or individual employees in accordance with the provisions set forth in the Standard.

If further information or clarification is required, please call me using extension 3271.

Sincerely,

Kurt Salomon
Supervisor, Safety/Security/Medical

Enclosure(s)

KS:at

11/11/86
Compressed Asbestos Sheet
Prepared by H. Hughes

21/11/86

Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315.597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURED BY: Garlock, Inc. EMERGENCY PHONE: (315)-597-4811

ADDRESS: 1666 Division St., Palmyra, N.Y. 14522

TRADE NAME: Styles 900, 900T, 7005, 7006, 7735, 7735S-1 & 9532 Compressed Asbestos Sheets.

SYNONYMS: Styrene-Butadiene Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos*	80-90	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA Limit)	12001-29-5
*The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.			

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable.

Specific Gravity: Not Applicable.

Vapor Pressure: Not Applicable.

Volatile by Volume: Not Applicable.

Solubility in Water: Negligible.

APPEARANCE AND ODOR: Off-white sheet or gaskets - slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable.

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No special action.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be vacuumed up, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved dust mask.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos is bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a dust mask should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: HK Hughes

10/6/86

Colt Industries



EXHIBIT

Plaintiff's 1

3/22/85 AAA

Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315-597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURED BY: Garlock, Inc. **EMERGENCY PHONE:** (315)-597-4811

ADDRESS: 1666 Division St., Palmyra, N.Y. 14522

TRADE NAME: Styles 900, 900T, 7005, 7006, 7735, 7735S-1 & 9532 Compressed Asbestos Sheets.

SYNONYMS: Styrene-Butadiene Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	Z	TLV	CAS NUMBER
Chrysotile (White) Asbestos* *The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.	80-90	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA PEL)	12001-29-5

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable.

Vapor Pressure: Not Applicable.

Solubility in Water: Negligible.

Specific Gravity: Not Applicable.

Volatile by Volume: Not Applicable.

APPEARANCE AND ODOR: Off-white sheet or gaskets - slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable.

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned. ✓

PLAINTIFF'S
EXHIBIT

102

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wet waste.

Vacuum up any waste with HEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with HEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations. ✓

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use.

If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters. ✓

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling. ✓

See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. ✓

As a precaution, a half face respirator with HEPA filters should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: HRH
U S OSHA Chemist

4-13-87 ✓

MSDS 10/6/86

Styles 7021, 7021 T, 7405,
7819 & 9533

Compressed Asbestos Sheet

Prepared by H. Hughes

Colt Industries



Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522-9355
315/597-4811

Prepared by H. Hughes

October 20, 1986

Dear Customer:

In complying with the OSHA Hazard Communication Standard 29 CFR 1910.1200, please find enclosed a material safety data sheet covering the Garlock, Inc. style(s) recently requested or shipped to you. Please communicate this information to those end users or individual employees in accordance with the provisions set forth in the Standard.

If further information or clarification is required, please call me using extension 3271.

Sincerely,

Kurt Salomon
Supervisor, Safety/Security/Medical

Enclosure(s)

KS:at

Colt Industries



Garlock Inc.
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315-597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURED BY: Garlock, Inc. **EMERGENCY PHONE:** (315)-597-4811
ADDRESS: 1666 Division St., Palmyra, N.Y. 14522
TRADE NAME: Styles 7021, 7021T, 7405, 7819 and 9533 Compressed Asbestos Sheets.
SYNONYMS: Styrene-Butadiene Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos* *The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.	80-90	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA Limit)	12001-29-5

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable. Specific Gravity: Not Applicable.
Vapor Pressure: Not Applicable. Volatile by Volume: Not Applicable.
Solubility in Water: Negligible.

APPEARANCE AND ODOR: Gray-black to black sheet or gasket - Slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable. **FLAMMABLE LIMITS:** Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No special action.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be vacuumed up, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved dust mask.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos is bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a dust mask should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: H. R. Hughes
 Superv. Chemist

10/6/86

MSDS 10/6/86
Styles 902, 903 & 903 S
Compressed Asbestos Sheet
Prepared by H. Hughes

Colt Industries



Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522-9355
315/597-4811

October 20, 1986

Dear Customer:

In complying with the OSHA Hazard Communication Standard 29 CFR 1910.1200, please find enclosed a material safety data sheet covering the Garlock, Inc. style(s) recently requested or shipped to you. Please communicate this information to those end users or individual employees in accordance with the provisions set forth in the Standard.

If further information or clarification is required, please call me using extension 3271.

Sincerely,

Kurt Salomon
Supervisor, Safety/Security/Medical

Enclosure(s)

KS:at

Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315-597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURED BY: Garlock, Inc. **EMERGENCY PHONE:** (315)-597-4811
ADDRESS: 1666 Division St., Palmyra, N.Y. 14522
TRADE NAME: Styles 902, 903 and 903S Compressed Asbestos Sheets.
SYNONYMS: EPDM Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos* *The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.	80-90	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA Limit)	12001-29-5

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable. Specific Gravity: Not Applicable.
Vapor Pressure: Not Applicable. Volatile by Volume: Not Applicable
Solubility in Water: Negligible.
APPEARANCE AND ODOR: Off-white sheet or gaskets - slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable. **FLAMMABLE LIMITS:** Not Applicable.
EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No special action.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be vacuumed up, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved dust mask.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos is bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a dust mask should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY:

H.R. Hughes
H.R. Hughes, Supvr., Chemist

10/6/86

MSDS 10/6/86
Styles 7228, 9053 & 9057
Compressed Asbestos Sheet
Prepared by H. Hughes

Colt Industries



Garlock Inc.
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315-597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS NAME: Garlock, Inc. **EMERGENCY PHONE:** (315)-597-4811
ADDRESS: 1666 Division Street, Palmyra, N.Y. 14522
TRADE NAME: Styles 7228, 9053 and 9057 Compressed Asbestos Sheets.
SYNONYMS: Polychloroprene (Neoprene) Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos(1)	72-85	0.2 fibers longer than 5 micrometers per cc of air.	12001-29-5
Ethylene Thiourea (2)	0.1-0.3	Suspected Carcinogen.	96-45-7
(1) The asbestos fiber is bound and encapsulated by vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.			
(2) The amount shown is the quantity added during production. Most is believed consumed during the curing process. Any remaining is not free to become airborne.			

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable. Specific Gravity: Not Applicable.
Vapor Pressure: Not Applicable. Volatile by Volume: Not Applicable
Solubility in water: Negligible.
APPEARANCE AND ODOR: Gray-black to black sheet or gaskets - Slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable. **FLAMMABLE LIMITS:** Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke, hydrogen chloride fumes and possible presence of other chlorine bearing combustion products. Also, some asbestos fibers may be released when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some toxic fumes and possibly some free asbestos fibers when burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain conditions, some hydrogen chloride fumes and possibly other chlorine bearing decomposition products. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No special action.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be vacuumed up, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use.
If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved dust mask.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos is bonded by an elastomer compound, however, do not misuse by improper cutting or handling.
See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a dust mask should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: H.R. Hughes
H.R. Hughes, Supvr., Chemist

10/6/86

MSDS 10/6/86
Styles 8746 & 8748
Compressed Asbestos Sheet
Prepared by H. Hughes

Colt Industries



Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522-9355
315/597-4811

October 20, 1986

Dear Customer:

In complying with the OSHA Hazard Communication Standard 29 CFR 1910.1200, please find enclosed a material safety data sheet covering the Garlock, Inc. style(s) recently requested or shipped to you. Please communicate this information to those end users or individual employees in accordance with the provisions set forth in the Standard.

If further information or clarification is required, please call me using extension 3271.

Sincerely,

Kurt Salomon
Supervisor, Safety/Security/Medical

Enclosure(s)

KS:at

Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315.597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS NAME: Garlock, Inc. EMERGENCY PHONE: (315)-597-4811
ADDRESS: 1666 Division Street, Palmyra, N.Y. 14522
TRADE NAME: Style 8746 and 8748 Compressed Asbestos Sheets.
SYNONYMS: Acrylonitrile-Butadiene Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos* *The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.	75-85	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA Limit)	12001-29-5

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable. Specific Gravity: Not Applicable.
Vapor Pressure: Not Applicable. Volatile by Volume: Not Applicable.
Solubility in Water: Negligible.
APPEARANCE AND ODOR: Grey-black to black sheet or gaskets - Slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable. FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke and possible production of some acrylonitrile monomer fumes. Also, some asbestos fibers may be released when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some toxic fumes and possibly free asbestos fibers when burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances and possibly some acrylonitrile monomer fumes. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No special action.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be vacuumed up, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved dust mask.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos is bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a dust mask should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY:


H. R. Hughes, Supvr., Chemist

10/6/86

MSDS 4/13/87
Styles 900, 900 T, 7005, 7006,
7735, 7735 S-1 & 9532
Compressed Asbestos Sheet
Prepared by H. Hughes

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Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315/597-4811

Compressed Asbestos Sheet
Prepared by H. Hughes

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURED BY: Garlock, Inc. EMERGENCY PHONE: (315)-597-4811

ADDRESS: 1666 Division St., Palmyra, N.Y. 14522

TRADE NAME: Styles 900, 900T, 7005, 7006, 7735, 7735S-1 & 9532 Compressed Asbestos Sheets.

SYNONYMS: Styrene-Butadiene Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos* *The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.	80-90	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA PEL)	12001-29-5

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable.

Specific Gravity: Not Applicable.

Vapor Pressure: Not Applicable.

Volatile by Volume: Not Applicable

Solubility in Water: Negligible.

APPEARANCE AND ODOR: Off-white sheet or gaskets - slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable.

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wet waste.

vacuum up any waste with HEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with HEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use.

If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling.

See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal.

As a precaution, a half face respirator with HEPA filters should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY:

H.R. Hughes
H.R. Hughes, Supvr., Chemist

4-13-87

MSDS 4/13/87
Styles 902, 903 & 903 S
Compressed Asbestos Sheet
Prepared by H. Hughes

Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315/597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURED BY: Garlock, Inc. EMERGENCY PHONE: (315)-597-4811

ADDRESS: 1666 Division St., Palmyra, N.Y. 14522

TRADE NAME: Styles 902, 903 and 903S Compressed Asbestos Sheets.

SYNONYMS: EPDM Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos* *The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.	80-90	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA PEL)	12001-29-5

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable.

Vapor Pressure: Not Applicable.

Solubility in Water: Negligible.

Specific Gravity: Not Applicable.

Volatile by Volume: Not Applicable

APPEARANCE AND ODOR: Off-white sheet or gaskets - slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable.

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned.

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wet waste.

vacuum up any waste with HEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with HEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a half face respirator with HEPA filters should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: H.R. Hughes

H.R. Hughes, Supvr., Chemist

4-13-87

MSDS 4/13/87
Styles 7021, 7021 T, 7405,
7819 & 9533
Compressed Asbestos Sheet
Prepared by H. Hughes

Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315/597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURED BY: Garlock, Inc. EMERGENCY PHONE: (315)-597-4811

ADDRESS: 1666 Division St., Palmyra, N.Y. 14522

TRADE NAME: Styles 7021, 7021T, 7405, 7819 and 9533 Compressed Asbestos Sheets.

SYNONYMS: Styrene-Butadiene Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos* *The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.	80-90	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA PEL)	12001-29-5

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable.

Specific Gravity: Not Applicable.

Vapor Pressure: Not Applicable.

Volatile by Volume: Not Applicable

Solubility in Water: Negligible.

APPEARANCE AND ODOR: Grey-black to black sheet or gasket - Slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable.

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned.

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wet waste.

Vacuum up any waste with HEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with HEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use.

If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a half face respirator with HEPA filters should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY:

H.R. Hughes
H.R. Hughes, Supvr., Chemist

4-13-87

MSDS 4/13/87
Styles 7228, 9053 & 9057
Compressed Asbestos Sheet
Prepared by H. Hughes

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Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315-597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS NAME: Garlock, Inc. EMERGENCY PHONE: (315)-597-4811

ADDRESS: 1666 Division Street, Palmyra, N.Y. 14522

TRADE NAME: Styles 7228, 9053 and 9057 Compressed Asbestos Sheets.

SYNONYMS: Polychloroprene (Neoprene) Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos(1)	72-85	0.2 fibers longer than 5 micrometers per cc of air. (OSHA PEL)	12001-29-5
Ethylene Thiourea (2)	0.1-0.3	Suspected Carcinogen.	96-45-7
(1) The asbestos fiber is bound and encapsulated by vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.			
(2) The amount shown is the quantity added during production. Most is believed consumed during the curing process. Any remaining is not free to become airborne.			

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable.

Specific Gravity: Not Applicable.

Vapor Pressure: Not Applicable.

Volatile by Volume: Not Applicable.

Solubility in water: Negligible.

APPEARANCE AND ODOR: Grey-black to black sheet or gaskets - Slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable.

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke, hydrogen chloride fumes and possible presence of other chlorine bearing combustion products. Also, some asbestos fibers may be released when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some toxic fumes and possibly some free asbestos fibers when burned.

Garlock Inc
Mechanical Packing Division
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Prepared by H. Hughes

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: (315)-597-4811

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SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wet waste.

Vacuum up any waste with HEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with HEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use.

If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a half face respirator with HEPA filters should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: H.R. Hughes
H.R. Hughes, Supvr., Chemist

4-13-87

MSDS 4/13/87
Styles 8746 & 8748
Compressed Asbestos Sheet
Prepared by H. Hughes

Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315-597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS NAME: Garlock, Inc. EMERGENCY PHONE: (315)-597-4811
ADDRESS: 1666 Division Street, Palmyra, N.Y. 14522
TRADE NAME: Style 8746 and 8748 Compressed Asbestos Sheets.
SYNONYMS: Acrylonitrile-Butadiene Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos* *The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.	75-85	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA PEL)	12001-29-5

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable. Specific Gravity: Not Applicable.
Vapor Pressure: Not Applicable. Volatile by Volume: Not Applicable.
Solubility in Water: Negligible.
APPEARANCE AND ODOR: Grey-black to black sheet or gaskets - Slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable. FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke and possible production of some acrylonitrile monomer fumes. Also, some asbestos fibers may be released when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some toxic fumes and possibly free asbestos fibers when burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances and possibly some acrylonitrile monomer fumes. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wet waste.

vacuum up any waste with HEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with HEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use.
If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling.
See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a half face respirator with HEPA filters should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: H.R. Hughes
H.R. Hughes, Supvr., Chemist

4-13-87

MSDS 6/18/87
Style 1000
Compressed Asbestos Sheet
Prepared by H. Hughes

Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315/597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURED BY: Garlock, Inc. EMERGENCY PHONE: (315)-597-4811

ADDRESS: 1666 Division St., Palmyra, N.Y. 14522

TRADE NAME: Style 1000 Compressed Asbestos Sheet (Wire Mesh Inserted)

SYNONYMS: Styrene-Butadiene Elastomer Bonded Compressed Asbestos Sheet.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos*	80-90	0.2 fibers longer than 5 micrometers per cubic centimeter of air. (OSHA PEL)	12001-29-5
*The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.			
NOTE: Style 1000 contains a steel wire mesh insert. Individuals handling the sheet should use care to avoid possible cuts of fingers and/or hands from wire ends protruding from edges of the sheet or gaskets.			

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable.

Vapor Pressure: Not Applicable.

Solubility in Water: Negligible.

Specific Gravity: Not Applicable.

Volatile by Volume: Not Applicable.

APPEARANCE AND ODOR: Black sheet or gaskets - slight odor. Ends of wire from the mesh insert are noticeable at the edges of sheet or gaskets.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable.

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned.

Prepared by H. Hughes

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals. Possible cuts of fingers and/or hands from wire mesh insertion.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wet waste.

Vacuum up any waste with HEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with HEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Due to the wire mesh insert, individuals handling the product may wish to wear protective gloves.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in clean, dry place away from strong oxidizing agents. Individuals should handle the product carefully to avoid cuts of fingers and/or hands from the wire mesh insert. Normal wash-up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling.

See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a half face respirator with HEPA filters should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: H.R. Hughes
H.R. Hughes, Supvr., Chemist

6/18/87

MSDS 4/3/90
Styles 604, 605 & 612
Prepared by H. Hughes

Colt Industries



Garlock Inc
Mechanical Packing Division
Industrial Packing
1666 Division Street
Palmyra, New York 14522
315-597-4811

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS NAME: Garlock, Inc. **EMERGENCY PHONE:** (315)-597-4811
ADDRESS: 1666 Division Street, Palmyra, N.Y. 14522
TRADE NAME: Styles 604 Folded Gaskets, 605 Gasket Sheeting and 612 Folded Tape.
SYNONYMS: Natural Rubber Compound Impregnated Asbestos Fabric.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV	CAS NUMBER
Chrysotile (White) Asbestos		0.2 fibers longer than 5 micrometers per cm ³ of air (OSHA PEL)	12001-29-5
Petroleum Oil (only if misted)		5 mg/M ³ (OSHA) 5mg/M ³ (ACGIH)	64742-53-6 and 64742-52-5
* Zinc Oxide (only if airborne)		10 mg/M ³ (OSHA PEL) 10 mg/M ³ (ACGIH)	1314-13-2

Ingredients marked * are reportable under SARA Title III Section 313 requirements.

The asbestos fiber in this product is bound and encapsulated by an elastomer matrix. The fibers do not present a hazard as long as the matrix remains intact.

SECTION III - PHYSICAL DATA

Melting Point, °F: Not Applicable. Specific Gravity: Not Applicable.
Vapor Pressure: Not Applicable. Volatile by Volume: Not Applicable.
Solubility in Water: Negligible.

APPEARANCE AND ODOR: White natural rubber compound on brass wire inserted asbestos fabric. Slight odor. Also available without wire and with surface graphite.

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: Not Applicable. **FLAMMABLE LIMITS:** Not Applicable.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers when binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Produces smoke, some fumes and possibly some free asbestos fibers when burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

Ingestion: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

Skin and Eye Contact: Simple irritation in sensitive individuals.

Medical Conditions Prone to Aggravation by Exposure:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES:

Inhalation (Of Fiber): Remove victim from contaminated area
Report exposure to medical personnel.

Ingestion (of fiber): No specific action. Report exposure to medical personnel.

Skin: Wash area of contact thoroughly with soap and water.
Contact a physician if irritation persists.

Eye Contact: If particles get in the eyes irrigate well with water.
Contact a physician as a precaution.

SECTION VI - REACTIVITY DATA

STABILITY: The products are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wet waste.

vacuum up any waste with HEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD: Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with HEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters.

VENTILATION REQUIREMENTS: No special requirement under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a half face respirator with HEPA filters should be worn by individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: H.R. Hughes 4/3/90
H.R. Hughes, Supvr., Chemist

MSDS 2/2/82
Style 7228
Compressed Asbestos Sheet
Prepared by H. Hughes