

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

Form Approved
OMB No. 44-81387

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 Lion Oil Company		EMERGENCY TELEPHONE NO. (501) 862-8111
ADDRESS (Number, Street, City, State, and ZIP Code) El Dorado, Arkansas 71730		V.C. Buchanan Chief Chemist
CHEMICAL NAME AND SYNONYMS Petroleum Asphalt Solvent Mastic		TRADE NAME AND SYNONYMS LION NOKORODE SEAL KOTE FIRE RE-
CHEMICAL FAMILY Petroleum	FORMULA N.A.	TARDANT NO FLASH

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N.A.	BASE METAL		
CATALYST		N.A.	ALLOYS		
VEHICLE		N.A.	METALLIC COATINGS		
SOLVENTS Aromatic & _____	5-10	200ppm	FILLER METAL		
Perchloroethylene	17-20	100ppm	PLUS COATING OR CORE FLUX		
OTHERS			OTHERS		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F) Perchloroethylene	248-252°F	SPECIFIC GRAVITY (H ₂ O=1)	1.212
& Aromatic Solvent	300-350	PERCENT VOLATILE BY VOLUME (%)	25-30
VAPOR PRESSURE (mm Hg.) @ 100°F	26	EVAPORATION RATE (N butyl Acetate = 1) (Solvent)	0.16
VAPOR DENSITY (AIR=1) Solvent	4+		
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Black Asphalt Mastic with Chlorinated Solvent Odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Product - No Flash	FLAMMABLE LIMITS (Product)	Lo: N.A.	Hi: N.A.
EXTINGUISHING MEDIA	None			
SPECIAL FIRE FIGHTING PROCEDURES	None			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

PLAINTIFF'S EXHIBIT

DOW-930

910686999

U.S. DEPARTMENT OF LABOR

A.C. LEARNER - 7-14-77

OSHA
21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Form No. L58-005-4
Rev. 12-69

WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

Johns-Manville Corp. & Subsidiaries SECTION I	
MANUFACTURER'S NAME P. O. Box 5108, Denver, Colorado 80217	EMERGENCY TELEPHONE NO. 303-770-1000 Extn. 2020
ADDRESS (Number, Street, City, State, and ZIP Code) Chrysotile Asbestos	
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS Asbestos - 4D-12
CHEMICAL FAMILY	FORMULA Chrysotile Asbestos

SECTION II HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS N.A.			BASE METAL N. A.		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FILL		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					% TLV (Units)
Chrysotile Asbestos Fibre					Approx. 100
For TLV see Federal Register 6/7/72, Vol. 37, No. 110 - 8 Hour time weighted average 5 fibres/ML greater than 5 microns in length. Ceiling concentration not to exceed 10 fibres/ML					

SECTION III PHYSICAL DATA	
BOILING POINT (°F.)	SPECIFIC GRAVITY (H ₂ O=1)
VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME (%)
VAPOR DENSITY (AIR=1)	EVAPORATION RATE (_____=1)
SOLUBILITY IN WATER	
APPEARANCE AND ODOR	White Fibrous Dry Material - No Odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	Non-Flammable		
SPECIAL FIRE FIGHTING PROCEDURES			

UNUSUAL FIRE AND EXPLOSION HAZARDS

WBR - 6/30/72

ST0687404

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

MATERIAL SAFETY DATA SHEET

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

SECTION I

MANUFACTURER'S NAME
AMATEX CORPORATION

ADDRESS
2151 275-4602

CHEMICAL NAME AND SYNONYMS
Hydrogen Monosulfide

TRADE NAME AND SYNONYMS
Asbestos (Cand #)

CHEMICAL FAMILY
Chrysotile

FORMULA
 $3MgO \cdot 2SiO_2 \cdot 2H_2O$

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES & SOLVENTS	%	TLV (mm)	ALLOYS AND METALLIC COATINGS	%	TLV (mm)
PAINTS	Not Applicable	NA	BASE METAL		NA
CATALYST		NA	ALLOYS		NA
VEHICLE		NA	METALLIC COATINGS		NA
SOLVENTS		NA	FILLER METAL PLUS COATING OR CORE FLUX		NA
ADDITIONS		NA	OTHERS		NA
OTHERS		NA			

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

None

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	NA	SPECIFIC GRAVITY (H ₂ O=1)	2.4-6
VAPOR PRESSURE (mm Hg)	NA	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE	NA
SOLUBILITY IN WATER	NA		NA

APPEARANCE AND ODOR: White - No odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Minimum) (°F): NA

EXTINGUISHING MEDIA: Incombustible

SPECIAL FIRE FIGHTING PROCEDURES: Incombustible

UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

PAGE (1) Form OSHA 20

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
8 hr time-weighted ave = 2 fibers (-5mm)/cc, ceiling = 10 fibers (-5mm)/cc.

EFFECTS OF OVEREXPOSURE
Long term increased risk of Asbestosis, cancer (bronchial, gastrointestinal, mesothelioma)

EMERGENCY AND FIRST AID PROCEDURES
Emergency: NIOSH approved respiratory protection: (up to 100 fibers/cc air purifying respirator)

First aid: NA

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE	CONDITIONS TO AVOID
	STABLE	X
INCOMPATIBILITY (Materials to avoid)	None	
HAZARDOUS DECOMPOSITION PRODUCTS	None	
HAZARDOUS POLYMERIZATION	WILL 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
Upon release of fibers in excess of above TLV, it is required to incorporate engineering controls, work practices, or approved respiratory protection, in that order

WASTE DISPOSAL METHOD
If disposal produces fibers in excess of above TLV, wastes are to be collected and disposed of in sealed impermeable bags or other sealed container

SECTION VIII - SPECIAL PROTECTION INFORMATION

RECOMMENDED PROTECTION (Identify type)
3M #6710 disposable or other NIOSH approved for asbestos.

VENTILATION
LOCAL EXHAUST Preferred

PROTECTIVE CLOTHING
When in excess of ceiling TLV

OTHER PROTECTIVE EQUIPMENT
When in excess of ceiling TLV-Whole body clothing, head, gloves, and foot.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store and handle such that fibers are not released in excess of above TLV

OTHER PRECAUTIONS
See section 1910, 1001 of Title 29 Chap. XVII-the Occupational Safety and Health Administration (OSHA)

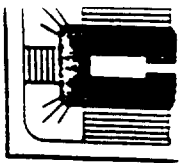
PAGE (2) Form OSHA 20

ST068/3/15

MATERIAL SAFETY DATA SHEET

CHILDERS PRODUCTS CO.

Approved by U.S. Department of Labor "Essentially Similar" to OSHA Form-20



Section I

Manufacturer's Name:

CHILDERS PRODUCTS CO.

P.O. BOX 505

BRISTOL, PA. 19007

Emergency Telephone No.

(215-943-7600)

Trade Name:

CP-11 VI-CRYL®

Chemical Family:

POLYVINYL ACETATE EMULSION

Section II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT	PPM	TLV
				mg/m ³
Asbestos (encapsulated)	12001-29-5	16		
Titanium Dioxide	13463-67-7	6		15mg/m ³
Ethylene Glycol	107-21-1	3	50	
Talc	14807-96-6	1	20 mppcl	
Calcium Carbonate	471-34-1	1		

Section III — PHYSICAL DATA

BOILING POINT (°F):	212 deg. F	EVAPORATION RATE:	1(Water=1)
SOLUBILITY IN WATER:	Appreciable	VAPOR PRESSURE:	Not established
SPECIFIC GRAVITY:	1.2	VAPOR DENSITY:	Not established
% VOLATILE BY VOLUME:	38		
APPEARANCE AND ODOR:	Thick paste, characteristic paint odor.		

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not determined - aqueous system.	FLAMMABLE LIMITS:	Not applicable.
EXTINGUISHING MEDIA:	Product will not burn until water evaporates. Then use water.		

Section V — EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:	Flush thoroughly with water for at least 15 minutes. Consult physician if irritation persists.
SKIN CONTACT:	Wash thoroughly with soap and water.
INHALATION:	With normal ventilation no inhalation problems should occur.
INGESTION:	If this product is swallowed, DO NOT induce vomiting. Seek immediate medical advice and/or attention.

ST06886986