

1-6-78

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 GAF Corporation	EMERGENCY TELEPHONE NO.
ADDRESS (Number, Street, City, State, and ZIP Code) 140 West 51st Street, New York, New York 10020	
CHEMICAL NAME AND SYNONYMS Mydrons Magnesium and Calcium Silicates	TRADE NAME AND SYNONYMS Asbestos Paper
CHEMICAL FAMILY (Mineral) formed asbestos starch mixture	FORMULA

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Asbestos				(about 70-90%) (see P.2)	

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N.3.	SPECIFIC GRAVITY (H ₂ O=1)	
VAPOR PRESSURE (mm Hg.) (not volatile)	N.A.	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ =1)	N.A.
SOLUBILITY IN WATER	Insoluble	density approx.	2.5
APPEARANCE AND ODOR Light grey formed sheets & rolls; odorless			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Not flammable	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA N.A.			
SPECIAL FIRE FIGHTING PROCEDURES N.A.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

PLAINTIFF'S EXHIBIT

02918.00

PLAINTIFF'S EXHIBIT

WV-024184

200003

exposed shall not exceed two (2) fibers longer than 5 microns per cc of air. (Ceiling value no more than 10 fibers longer than 5 microns.)

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	See above
EFFECTS OF OVEREXPOSURE Breathing of asbestos fibers in significant amounts may produce irreversible lung damage (mesothelioma; asbestosis).	
EMERGENCY AND FIRST AID PROCEDURES Prevent dusting; wet down product and work area; use wet cutting methods. Use NIOSH approved protective breathing equipment and/or exhaust systems with proper dust collectors. Dispose of dust and waste in polyethylene bags or other impermeable containers by burying. Label as below **:	

SECTION VI - REACTIVITY DATA ** Label for waste:			
STABILITY	UNSTABLE		CONDITIONS TO AVOID CAUTION: Contains asbestos fiber. Avoid creating dust. Breathing asbestos dust may cause serious bodily harm.
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) None			
HAZARDOUS DECOMPOSITION PRODUCTS None			
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 Vacuum up fines and dust, carefully avoiding dusting. If sweeping is used, control dust by wetting area and by use of appropriate dust mask. Place in impermeable bags or containers for disposal. Label as above **.	
WASTE DISPOSAL METHOD Cover in sanitary land fill allowed for purpose.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) NIOSH - approved respirators when cutting, grinding or otherwise dusty conditions.		
VENTILATION	LOCAL EXHAUST Recommended when grinding, filling, cutting, etc.	SPECIAL
	MECHANICAL (General) Incorporate dust collector in exhaust.	OTHER
PROTECTIVE GLOVES ---		EYE PROTECTION When grinding, crushing, cutting, or otherwise likely to be exposed to particulates.
OTHER PROTECTIVE EQUIPMENT ---		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Avoid dusting: avoid breathing dust. Use wet cutting methods or die or broach cutting in addition to above precautions and recommendations.	
OTHER PRECAUTIONS See OSHA regulations for asbestos handling in CFR Title 29, Part 1910, Subpart Z, par 1910.1001.	

800005

200004

ARMCO STEEL CORPORATION
MATERIAL SAFETY DATA SHEET

FEB 6 1976

The purpose of this data sheet is to obtain technical information for each specific material from the manufacturer. This information is required to evaluate health, safety and environmental hazards, determine precautions and make final recommendations for use of the material. The information requested will be kept confidential and disclosed only as necessary to meet requirements of the Occupational Safety and Health Act of 1970 or as required by any other Federal, State or Local regulations.

SECTION 1	
MANUFACTURER'S NAME GAF CORP.	EMERGENCY TELEPHONE NO. 814/752-3291
ADDRESS (Number, Street, City, State, and ZIP Code) 1122 W. 34 ST. ERIE, PA. 16512	
CHEMICAL NAME AND SYNONYMS Asbestos PAPER	TRADE NAME AND SYNONYMS
CHEMICAL FAMILY INORGANIC	FORMULA H₄Mg₃Si₂O₉

SECTION II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
Pigments NONE			Base Metal NONE		
Catalyst NONE			Alloys NONE		
Vehicle NONE			Metallic Coatings NONE		
Solvents NONE			Filler Metal Plus Coating or Core Flux NONE		
Additives NONE			Others		
Others NONE					
HAZARDOUS MIXTURES OF OTHER SOLVENTS					TLV (Units)

SECTION III - PHYSICAL DATA			
Boiling Point (°F)	NONE	Specific Gravity (H ₂ O = 1)	2.5
Vapor Pressure (mm Hg.)	NONE	Percent Volatile by Volume (%)	NONE
Vapor Density (Air = 1)	NONE	Evaporation Rate (_____ = 1)	NONE
Solubility in Water	INSOL		
Appearance and Odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method used)	Flammable Limits	LEL	UEL
Extinguishing Media	NONE		
Special Fire Fighting Procedures	NONE		
Unusual Fire and Explosion Hazards	NONE		

SECTION V - HEALTH HAZARD DATA	
Threshold Limit Value	
Effects of Overexposure	HAS BEEN FOUND TO CAUSE ASBESTOSIS
Emergency and First Aid Procedures	WEAR RESPIRATORS

SECTION VI - REACTIVITY DATA			
Stability	Unstable		Conditions to Avoid
	Stable		
Incompatibility (Materials to avoid)			
Hazardous Decomposition Products			
Hazardous Polymerization	May Occur	NO	Conditions to Avoid
	Will Not Occur		

SECTION VII - SPILL OR LEAK PROCEDURES	
Steps to be Taken in Case Material is Released or Spilled	
Waste Disposal Method	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
Respiratory Protection (Specify type)		
Ventilation	Local Exhaust	Special
	Mechanical (General)	Other
Protective Gloves	Eye Protection	
Other Protective Equipment	WEAR RESPIRATORS	

SECTION IX - SPECIAL PRECAUTIONS	
Precautions to be Taken in Handling and Storing	WEAR RESPIRATORS
Other Precautions	

Chemical composition of asbestos fibers

SiO ₂	37-44%	Al ₂ O ₃	.2-1.5
MgO	39-44	H ₂ O	12.0-15.0
FeO	.0-6.0	CaO	TR-5.0
Fe ₂ O ₃	1-5.0		

200006