January 1980 Occupational

MATERIAL SAFETY DATA SHEET

Silicon Carbide

1081

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.
[redacted]	(412) 654-7711
[redacted] (City, State, and ZIP Code)	
CHEMICAL NAME AND SYNONYMS [redacted]	TRADE NAME AND SYNONYMS C Mixes, A Mixes, and X Mixes
	FORMULA SiC, SiO_2, Al_2O_3, Fe_2O_3, TiO_2, Alkalies

SECTION II - HAZARDOUS INGREDIENTS

	%	TLV (Units)
[redacted]	10-12	The current OSHA Permissable Exposure Limit (PEL) for respirable crystalline silica dust is 10 mg/m³ divided by % free silica plus 2, averaged over an 8 hour workshift.
[redacted]	<3	10 mg/m³, total dust (5 mg/m³, Respirable dust).
[redacted]	>85	10 mg/m³, total dust (5 mg/m³, Respirable dust).

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	NA	SPECIFIC GRAVITY (H_2O=1)	--
VAPOR PRESSURE (mm Hg.)	NA	PERCENT, VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____=1)	NA
SOLUBILITY IN WATER	NA		
APPEARANCE AND ODOR	Solid, Gray to Black, No Distinctive Odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)	Non Flammable	FLAMMABLE LIMITS	NA	Lel / Uel
EXTINGUISHING MEDIA	NA			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

Health

OSHA (1)

(Continued on reverse side)

Form OSHA-20
Rev. May 77

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

See Section II.

EFFECTS OF OVEREXPOSURE Chronic health hazards can occur from long term excessive inhalation of crystalline silica dust. Crystalline silica in the lungs can produce a pneumoconiosis, commonly called silicosis, which is a slowly developing disease. Symptoms are delayed (10 yrs. or more). Benign or inert pneumoconiosis may result from exposure to nuisance dusts.

EMERGENCY AND FIRST AID PROCEDURES Eyes: Irrigate with water immediately. Breathing: Remove to fresh air. If irritation persists consult physician.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATABILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

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

Put into containers. Avoid procedures which will create dust.

WASTE DISPOSAL METHOD

Disposal should be in accordance with Federal, State and local disposal requirements.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) NIOSH approved respirator for protection against pneumoconiosis-producing dusts required if necessary to control dust levels below TLV especially during installation or tear out procedures.

VENTILATION	LOCAL EXHAUST - Required if necessary to control dust levels below TLV.	
	MECHANICAL (General)	

PROTECTIVE GLOVES Good Practice

EYE PROTECTION Good Practice

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep refractories covered and dry.

Avoid inhalation of dust.

OTHER PRECAUTIONS

 While the information and recommendations set forth herein are believed to be accurate as of the date hereof, NEW JERSEY REFRACTORIES COMPANY makes no warranty with respect thereto and disclaims all liability from reliance thereon.