



Date: August 23, 1976

HARRY OSBORNE CO. INC  
K11111  
KONMII

U.S. DEPARTMENT OF LABOR  
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)

Form Approved  
OMB No. 1218-004

MANUFACTURER'S NAME

Pennsylvania Glass Sand Corporation

## SECTION I

ADDRESS (Number, Street, City, State, and ZIP Code)  
P. O. Box 187, Berkeley Springs, West Virginia 25411

EMERGENCY TELEPHONE NO.

CHEMICAL NAME AND SYNONYMS  
Silicon Dioxide (Silica)

CHEMICAL FAMILY  
Natural Mineral, extracted from earth

TRADE NAME AND SYNONYMS  
Silica Products

FORMULA  
SiO<sub>2</sub> (99.2% - 99.8% Free Silica)

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS

PIGMENTS

None

%

TLV  
(Units)

ALLOYS AND METALLIC COATINGS

CATALYST

None

BASE METAL

VEHICLE

None

ALLOYS

None

SOLVENTS

None

METALLIC COATINGS

None

ADDITIVES

None

FILLER METAL  
PLUS COATING OR CORE FLUX

None

OTHERS

None

OTHERS

None

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES  
None

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)

N.A.

SPECIFIC GRAVITY (H<sub>2</sub>O=1)

VAPOR PRESSURE (mm Hg.)

N.A.

PERCENT VOLATILE  
BY VOLUME (%)

VAPOR DENSITY (AIR=1)

N.A.

EVAPORATION RATE  
(\_\_\_\_\_ = 1)

SOLUBILITY IN WATER

None

APPEARANCE AND ODOR

Sand - whole grains or flour - No odor

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)

FLAMMABLE LIMITS

L<sub>1</sub>

EXTINGUISHING MEDIA

No fire or explosive hazard

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE AND EXPLOSION HAZARDS

03:26PM HARRY OSBORNE CO INC P.2/2  
 (\*) See note below  
 (\*\*) See note below

**SECTION V - HEALTH HAZARD DATA \***

THRESHOLD LIMIT VALUE  
 As specified in OSHA Standard currently #1910.1000, table Z-3 for silica: crystalline

EFFECTS OF OVEREXPOSURE  
 Repeated inhalation of respirable dust for extended period of time may cause injury to the lungs.

EMERGENCY AND FIRST AID PROCEDURES  
 None

**SECTION VI - REACTIVITY DATA**

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) None			
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  
 Clean up by use of recommended dustless methods - water or vacuum - Limit exposure so that it does not exceed OSHA Standard TLV.

WASTE DISPOSAL METHOD  
 Any approved solid waste disposal method - Limit exposure so that it does not exceed OSHA Standard TLV.

**SECTION VIII - SPECIAL PROTECTION INFORMATION \***

RESPIRATORY PROTECTION (Specify type)  
 Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134

VENTILATION	LOCAL EXHAUST Follow OSHA Standard	SPECIAL
	MECHANICAL (General) Follow OSHA Standard	OTHER

PROTECTIVE CLOVES  
As required

EYE PROTECTION  
As required

OTHER PROTECTIVE EQUIPMENT  
As required to meet applicable OSHA Standards

**SECTION IX - SPECIAL PRECAUTIONS \***

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  
 Use dustless systems for handling, storage and clean-up so that exposure does not exceed OSHA Standard TLV.

OTHER PRECAUTIONS  
 Practice Good Housekeeping. Maintain and test equipment. Suggest posting warning areas where product is used, handled or stored warning employees that repeated inhalation of respirable dust for extended period of time may cause injury to lungs.