

Material Safety Data Sheet

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HMIS CLASSIFICATIONS:

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

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SUPERSEDES:

PRODUCT IDENTIFICATION

PRODUCT NAME: Wire Saw Slurry Mix

CHEMICAL NAME: Mixture

CAS NO.: N/A

SYNONYMS: None

CHEMICAL FORMULA: Si; SiC; HO-(CH₂CH₂O)_n-H

CHEMICAL FAMILY: Mixture

SUMMARY OF HAZARDS

Eye irritant.
Causes irritation to respiratory tract.
Dust may be readily ignited.

OSHA HAZARDOUS COMPONENTS

CHEMICAL NAME	% (weight)	CAS NO.	NOTE:	EXPOSURE LIMIT
Silicon	<2%	7440-21-3	ND	OSHA 15 mg/m ³ as total dust 8 Hr TWA 5 mg/m ³ as respirable fraction 8 Hr TWA ACGIH 10 mg/m ³ 8 Hr TWA

PRODUCT NAME: Wire Saw Slurry Mix

Silicon Carbide	93%	409-21-2	ND	OSHA 15 mg/m ³ as total dust 8 Hr TWA 5 mg/m ³ as respirable fraction 8 Hr TWA ACGIH 10 mg/m ³ 8 Hr TWA
Polyglycol	<4%	25322-68-3	ND	DFG MAK 1000 mg/m ³

NOTE: Carcinogenicity listing of components at concentrations greater than or equal to 0.1% indicated by: @=NTP; #=IARC; &=OSHA; +=ACGIH; *=OTHER; ND=Not designated.

CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE/ODOR: Black powder/crystal in transparent, colorless liquid

BOILING POINT: >200°C / >392°F (liquid portion)

VAPOR PRESSURE: <0.01 mm Hg @ 20°C (liquid portion)

SOLUBILITY IN WATER: Liquid portion is 100% soluble; solid portion is insoluble

SPECIFIC GRAVITY: 3.408

MELTING POINT: 1410° C/2570° F (Si)

DENSITY: N/A

FIRE AND EXPLOSION HAZARDS

FLASH POINT/METHOD: >177°C (350°F) Pensky-Martens Closed Cup ASTM D 93
196°C (385°F) Cleveland Open Cup

FLAMMABLE LIMITS: N/D

EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Use self-contained breathing apparatus and protective clothing.

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UNUSUAL FIRE AND EXPLOSION HAZARDS: High concentrations of dust may be readily ignited, propagate flame and generate some pressure and/or a mild explosion. Material transfer and dust collection equipment should be constructed of conductive materials and be electrically interconnected (bonded) and grounded.

REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid generation of airborne dusts. When heated, silicon will react with water or steam to produce H₂. Violent reaction may occur upon contact with alkali carbonates.

REACTIVITY DATA (Cont.)

MATERIALS TO AVOID: Acids and strong bases

HAZARDOUS POLYMERIZATION: Will not occur

HEALTH HAZARDS

INHALATION: Expected to be irritating to respiratory tract.

EYE CONTACT: Expected to be an eye irritant.

SKIN CONTACT: Not expected to be a skin irritant.

INGESTION: Not expected to be a primary route of exposure.

CHRONIC EFFECTS OF OVEREXPOSURE: Skin dehydration may occur with prolonged contact of unprotected skin.

EMERGENCY FIRST AID PROCEDURES

INHALATION: If inhaled, remove to fresh air.

EYE CONTACT: Begin immediate eye irrigation with cool water.

SKIN CONTACT: Wash contaminated areas with soap and water.

INGESTION: No emergency treatment is anticipated.

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EXPOSURE CONTROL INFORMATION

EYE PROTECTION: Chemical goggles

PROTECTIVE GLOVES: PVC

RESPIRATORY PROTECTION: NIOSH approved combination OV, dust/mist respirator

MECHANICAL VENTILATION: Recommended

LOCAL EXHAUST VENTILATION: At source of dust, for dried material

ENVIRONMENTAL PROTECTION

SPILLS OR LEAKS: Sweep or shovel spills into appropriate container for disposal.

DISPOSAL METHODS: Under the CERCLA/RCRA regulations currently in effect, this product is not regulated as a hazardous waste or material. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

STORAGE REQUIREMENTS: Store in well-ventilated, cool, dry area. Close container when not in use.

REGULATORY INFORMATION:

TSCA: THIS MATERIAL IS IN COMPLIANCE WITH THE TSCA (15 U.S.C. 2601-2699).

DOT DESCRIPTION/PROPER SHIPPING NAME:

Not regulated for transportation.

HAZARD CATEGORIES FOR SARA 311/312 REPORTING ARE INDICATED BELOW:

HEALTH	Immediate (Acute)	Yes
HEALTH	Delayed (Chronic)	No
PHYSICAL	Fire	No
PHYSICAL	Sudden Release of Pressure	No
PHYSICAL	Reactive	No
	Nuisance Mist/Dust Only	Yes