

MATERIAL SAFETY DATA SHEET

MSDS 2002

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SECTION I – MATERIAL IDENTIFICATION

MATERIAL NAME: Polycrete 1600 - PART C (sand)

MANUFACTURER: Erie Metal Specialties, Inc.
13311 Main Road
Akron, NY 14001

SUPPLIER: Erie Metal Specialties, Inc.
13311 Main Road
Akron, NY 14001

EMERGENCY PHONE:
CHEM-TREC: (800) 424-9300

(716) 542-3991

Chemical name: Silica
Trade Name: Polycrete 1600
Material Use: Expansion Joint filler

Chemical Family: Silica
Chemical formula: Si O₂
Molecular Weight: N/A

SECTION II – HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>Percent (wt)</u>	<u>LD50 (rat, oral)</u>
Crystalline silica	14808-60-7	60-100%	NE

SECTION III – PHYSICAL DATA

PHYSICAL STATE	Solid
ODOR/APPEARANCE:	Odorless, dry aggregate mix
ODOR THRESHOLD (ppm):	NE
SPECIFIC GRAVITY:	2.7
VAPOR PRESSURE (mm)	N/A
VAPOR DENSITY (air = 1):	N/A
EVAPORATION RATE:	N/A
BOILING POINT:	N/A
SOLUBILITY IN WATER	Insoluble
FREEZING POINT:	N/A
% VOLATILE (volume):	0%
PH:	N/A
COEFFICIENT OF WATER/OIL DISTRIBUTION: NE	

SECTION IV – FIRE AND EXPLOSION HAZARD

FLAMABILITY:	Non-Flammable
UNDER WHICH CONDITIONS:	N/A
MEANS OF EXTINCTION:	N/A
SPECIAL PROCEDURES:	N/A
FLASH POINT (F°):	NONE
UPPER EXPLOSION LIMIT:	N/A
LOWER EXPLOSION LIMIT:	N/A
AUTOIGNITION TEMPERATURE:	N/A
HAZARD COMBUSTION PRODUCTS:	N/A
SENSITIVITY TO:	NO
MECHANICAL IMPACT:	NONE
STATIC DISCHARGE:	NONE

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SECTION V – REACTIVITY DATA

CHEMICAL STABILITY:	Stable
If no, under what conditions.	N/A
INCOMPATIBILITY TO OTHER SUBSTANCES:	No
If yes, which one's.	None recognized
REACTIVITY & UNDER WHAT CONDITIONS:	Reacts with hydrofluoric acid to generate the volatile corrosive gas SiF ₄
HARARDOUS DECOMPOSITION PRODUCTS:	None

SECTION VI – TOXICOLOGICAL PROPERTIES

PRIMARY ROUTE OF EXPOSURE:

<input checked="" type="checkbox"/> SKIN CONTACT	<input checked="" type="checkbox"/> SKIN ABSOROTION	<input checked="" type="checkbox"/> EYE CONTACT
<input checked="" type="checkbox"/> INHALATION ACUTE	<input checked="" type="checkbox"/> INHALATION CHRONIC	<input checked="" type="checkbox"/> INGESTION

EFFECTS OF ACUTE EXPOSURE:

- EYES/SKIN: May cause slight irritation
- INHALATION: May cause slight irritation

EFFECTS OF CHRONIC EXPOSURE:

- Prolonged or repeated exposure may cause scarring of the lungs with cough and shortness of breath. A delayed injury, silicosis, may result from breathing free silica. Crystalline silica has been classified by international agency for research on cancer (IARC) as 2A – probable carcinogenic to humans.

ADDITIONAL HEALTH INFORMATION:

LD50 OF MATERIAL:	See - <u>SECTION II</u>
LC50 OF MATERIAL:	N/E
EXPOSURE LIMITS:	0.1 mg/m ³ (for crystalline silica)
IRRITANCY OF MATERIAL:	NO
SENSITIZATION OF MATERIAL:	NO
SYNERGISTIC MATERIAL	None known
CARCINOGENICITY:	YES, SEE ABOVE
REPRODUCTIVE EFFECTS:	None known
TERATOGENICITY:	NO
MUTAGENICITY:	NO

SECTION VII – FIRST AID MEASURES

EYES:	Flush with water. Get to medical attention if irritation persists.
SKIN:	Wash with soap and water.
INHALATION:	Remove to fresh air.
INGESTION:	Get to medical attention

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SECTION VIII – SPECIAL PROTECTION INFORMATION

PROTECTIVE GLOVES:	Adequate to protect from abrasive products.
EYE PROTECTION:	Safety glasses
RESPIRATORY PROTECTION:	Dust mask (or approved respirator if TLV exceeds 0.1 mg/m3.
OTHER PROTECTIVE EQUIPMENT:	Appropriate clothing.
ENGINEERING CONTROLS:	General ventilation to keep dust levels below the recommended TLV of mg/m3.

SECTION IX – SPILL OR LEAK INFORMATION

ENVIRONMENTAL RELEASES:

- Sweep up spills.
- Collect in suitable containers.

WASTE DISPOSABLE:

- Dispose of in accordance with local regulations.

SECTION X – HANDLING & STORAGE INFORMATION

HANDLING PROCEDURES:

- Guard against inhalation of dust.

STORAGE REQUIREMENTS:

- None

SECTION XI – REGULATORY INFORMATION

WHMIS CLASSIFICATION:	D2A
TDGA CLASSIFICATION:	Not regulated
UN NUMBER:	Not regulated
TSCA: (USA)	All ingredients on TSCA inventory.
CPEA: (Canada)	All ingredients on DSL (domestic substances list)

SECTION XII – PREPARATION INFORMATION

PREPARED BY:	Larry Prouty
Telephone number:	(905) 564-6100
Date of preparation:	April 1, 2002

ABBREVIATION NOTES:

- N/A = Not applicable
- N/E = Not established