



**Skin:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

**Inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside.

**Ingestion:** If large amounts were swallowed, get medical advice.

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#### SECTION V - FIRE AND EXPLOSION HAZARD DATA

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**Flammability:** Noncombustible and not explosive.

**Auto-ignition Temperature:** Not Applicable

**Flash Points:** Not Applicable

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#### SECTION VI – ACCIDENTAL RELEASE MEASURES

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If spilled, use dustless methods (vacuum) and place into covered container for disposal (if not contaminated or wet) or re-use.

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#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

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DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended.

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#### SECTION VIII – EXPOSURE CONTROL MEASURES

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**Engineering Controls:** Local exhaust can be used, if necessary, to control airborne dust levels.

**Personal Protection:** The use of barrier creams or impervious gloves, boots and clothing to protect the skin from contact is recommended. Following work, workers should shower with soap and water. Precautions must be observed because burns occur with little warning -- little heat is sensed.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

**Exposure Limits:** Consult local authorities for acceptable exposure limits

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#### SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

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**Appearance and Odor:** White to off-white -No odor

**Solubility in water:** 36 gm/ 100 cc at 20°C

**Specific Gravity:** 2.165

**Boiling Point:** 1413°C

**pH:** ~ 7

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**SECTION X - REACTIVITY DATA**

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**Stability:** Stable.

**Incompatibility (Materials to Avoid):** Will react with strong acids to release HCl and strong oxidizing agents to release Cl<sub>2</sub>.

**Hazardous Decomposition or By-products:** Will release toxic fumes of Cl<sub>2</sub> and Na<sub>2</sub>O.

**Hazardous Polymerization:** Will Not Occur.

**Condition to Avoid:** Keep dry until used to preserve product utility.

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**SECTION XI – TOXICOLOGICAL INFORMATION**

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**Routes of Entry:** Inhalation, Ingestion

**Toxicity to Animals:**

**Oral Toxicity:** Oral rat LD50: 3000 mg/kg (RTECS,1986)

**Dermal Toxicity:** Skin irritation rabbit: 500 mg/24 hr. Mild (RTECS,1986)

**Eye:** Eye irritation rabbit: 100 mg/24 hr. Moderate (RTECS,1986)

**Chronic Effects on Humans:** Not Available

**Special Remarks on Toxicity:** Not Available

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**SECTION XII – ECOLOGICAL INFORMATION**

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**Ecotoxicity:** Not Available

**BOD5 and COD:** Not Available

**Products of Biodegradation:** Not available

**Toxicity of the Products of Biodegradation:** Not available

**Special Remarks on the Products of Biodegradation:** Not available

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**SECTION XIII – DISPOSAL CONSIDERATIONS**

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**Waste Disposal Method:** The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302).

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**SECTION XIV – TRANSPORT INFORMATION**

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**DOT/UN Shipping Name:** Non-regulated

**DOT Hazard Class:** Non-regulated

**Shipping Name:** Non-regulated

Non-Hazardous under U.S. DOT and TDG Regulations

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**SECTION XV – OTHER REGULATORY INFORMATION**

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**US OSHA 29CFR 1910.1200:** Considered hazardous under this regulation and should be included in the employers hazard communication program

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**SARA (Title III) Sections 311 & 312:** Not subject to reporting requirements

**SARA (Title III) Section 313:** Not subject to reporting requirements

**TSCA (May 1997):** All components are on the TSCA inventory list

**Federal Hazardous Substances Act:** Is a hazardous substance subject to statutes promulgated under the subject act

**Canadian Environmental Protection Act:** Not listed

**Canadian WHMIS:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

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**SECTION XVI – OTHER INFORMATION**

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<b>HMIS-III:</b>	Health –	0 = No significant health risk
		1 = Irritation or minor reversible injury possible
		2 = Temporary or minor injury possible
		3 = Major injury possible unless prompt action is taken
Flammability-	4 = Life threatening, major or permanent damage possible	
	0 = Material will not burn	
	1 = Material must be preheated before ignition will occur	
	2 = Material must be exposed to high temperatures before ignition	
Physical Hazard-	3 = Material capable of ignition under normal temperatures	
	4 = Flammable gases or very volatile liquids; may ignite spontaneously	
	0 = Material is normally stable, even under fire conditions	
	1 = Material normally stable but may become unstable at high temps	
	2 = Materials that are unstable and may undergo react at room temp	
	3 = Materials that may form explosive mixtures with water	
4 = Materials that are readily capable of explosive water reaction		

**Abbreviations:**

<b>ACGIH</b>	American Conference of Government Industrial Hygienists
<b>CAS</b>	Chemical Abstract Service
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation & Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CPR</b>	Controlled Products Regulations (Canada)
<b>DOT</b>	Department of Transportation
<b>IARC</b>	International Agency for Research
<b>MSHA</b>	Mine Safety and Health Administration
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicity Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>SARA</b>	Superfund Amendments and Reauthorization Act

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TLV	Threshold Limit Value
TWA	Time-weighted Average
WHMIS	Workplace Hazardous Material Information System

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**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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