

PACER CORPORATION

MATERIAL SAFETY DATA SHEET

Date Issued: November 1, 2009

SECTION I: IDENTIFICATION OF PRODUCT AND PRODUCER

Producer: PACER CORPORATION P.O. Box 912, 245 Mt. Rushmore Rd. Custer, SD 57730	Telephone Numbers: 800-568-2492 7 am - 5 pm MST M-F FAX: 605-673-4459 pacer@gwtc.net	Product Name: Crystalline Feldspar - R200
Chemical Name: Feldspar CAS #68476-25-5		

SECTION II: HAZARDOUS INGREDIENTS

Free Silica (Crystalline Quartz), Formula: SiO ₂ , OSHA PEL and MSHA Exposure Limit for Respirable Crystalline Silica, Quartz: $\frac{10\text{mg}}{\text{m}^3}$ (Respirable) %Silica+2 CAS No. 14808-60-7
Feldspar is a naturally occurring inorganic, igneous rock. This product does not contain any levels of toxic chemicals subject to the reporting requirements of Section 313 III SARA of 1986 and 40 CFR Part 372. Test data available.

SECTION III: PHYSICAL DATA

APPEARANCE AND ODOR White and Odorless	SOLUBILITY IN WATER: Negligible	VAPOR PRESSURE N/A
BOILING POINT N/A	SPECIFIC GRAVITY 2.63	MELTING POINT 1450 C
PERCENT VOLATILE N/A		

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT Non Flammable Non Explosive	UNUSUAL FIRE & EXPLOSION HAZARDS N/A	FLAMMABLE (EXPLOSIVE) LIMITS (PERCENT BY VOLUME) Lower Limit Upper Limit N/A N/A
SPECIAL FIRE FIGHTING PROCEDURES None	FIRE EXTINGUISHING MEDIA N/A	

SECTION V: HEALTH HAZARD INFORMATION

<p>HAZARD BY ROUTES OF EXPOSURE:</p> <p>INHALATION: WARNING: Feldspar is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). In October, 1996, an IARC working group re-assessing crystalline silica, a component of this product, designated crystalline silica as a Group 1 carcinogenic. The NTP indicates that crystalline silica is reasonably anticipated to be a Group 2 carcinogen. These classifications are based on sufficient evidence of carcinogenicity in certain experimental animals and on selected epidemiological studies of workers exposed to crystalline silica. These studies only rarely, however, include data on smoking, potential confounding exposures, and assurance of the comparability of referent population. Repeated prolonged inhalation of dust may cause delayed lung injury which may result in silicosis or pneumoconiosis.</p> <p>WARNING: This product contains respirable sized crystalline silica, a chemical known to the State of California to cause cancer. Compliance with all warnings concerning this material is required.</p>
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INGESTION: Nausea may result from accidental ingestion.	EYE: Inflammation of eye tissue may occur from overexposure	SKIN CONTACT/ABSORPTION: Inflammation from contact with open cuts may occur.
SIGNS AND SYMPTOMS OF EXPOSURE: Short term: Shortness of breath, coughing associated with inhalation of dust. Long term: Steady and prolonged exposure to dust concentrations higher than TLV without		

approved respirator could cause silicosis, a chronic disease of the lungs marked by acute fibrosis, may cause cancer based on animal data.

EMERGENCY/FIRST AID PROCEDURES:

INHALATION/INGESTION: Consult physician and/or obtain competent medical assistance.

EYE CONTACT: Flush with water, consult physician and/or obtain competent medical assistance.

SKIN CONTACT: Wash thoroughly with water.

SECTION VI. REACTIVITY DATA

GENERAL REACTIVITY: N/A	INCOMPATIBILITY (Materials to Avoid) N/A
HAZARDOUS POLYMERIZATION: N/A	STABILITY: Feldspar is a stable material under ordinary conditions.

SECTION VII: PROCEDURES DISPOSAL REQUIREMENTS

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Material is not dangerous if spilled. Wash away with water or vacuum with high efficiency (HEPPA) filter. If uncontaminated, recover and reuse. If contaminated, collect in suitable containers for disposal. Avoid creating dust. Avoid breathing dust. Wear a NIOSH/MSHA/OSHA approved respirator. Good housekeeping practices recommended.

WASTE AND CONTAINER DISPOSAL METHODS:
Disposal methods for non-hazardous materials should be complied with. May be buried in approved land disposal facility in accordance with Federal, State, and local regulations. Feldspar is not a hazardous waste under RCRA (40 CFR Part 261). Feldspar is not regulated by DOT.

SECTION VIII: SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Safety glasses optional but recommended.	PROTECTIVE GLOVES: Optional, but recommended.
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RESPIRATORY PROTECTION:
NIOSH/MSHA/OSHA approved respirator selection procedures. NIOSH approved dust mask.

VENTILATION:
Local exhaust required for dust removal. Refer to OSHA 1910.24, ASTM, and/or ANSI Standards. Do not exceed OSHA PEL or ACGIH TLV.

SECTION IX. SPECIAL REQUIREMENTS/PRECAUTIONS

STORAGE REQUIREMENTS:
Store in dry area. Do not breathe dust. Avoid creating dust in closed areas. Use adequate ventilation as recommended by NIOSH/MSHA/OSHA for crystalline silica.

The information contained herein is believed to be accurate, but Pacer Corporation makes no warranty with respect there to and disclaims responsibility for reliance thereon. This information applies only to the specific material described herein, and does not relate to use in connection with any other materials or in any process.

The Pacer Corporation makes no warranties, express or implied, concerning this product. No warranty of fitness for any particular purpose is made and we assume no responsibility whatever for any use of this product. This product should be used by properly trained personnel in compliance with applicable health and safety laws and regulations.