



Prairie Mud Service Ltd.

"Serving Western Canada with 24 Hour Drilling Mud Service"

MSDS (Material Safety Data Sheet)

SECTION I – PRODUCT IDENTIFICATION AND USE

Product Name: Cat Litter
Company: Prairie Mud Service
Address: 738 6th Street
Estevan, SK S4A 1A4
Phone: 306-634-3411
Fax: 306-634-6694
Chemical Name: Sodium Montmorillonite
Trade Name: APL Bentonite
Chemical Family: Silica
Material Use: Clumping Cat Litter, Pellet Binder, Feed Additive

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL

| Hazardous Ingredients | % | CAS Number | OSHA PEL | LD50/LC50 |
|-----------------------|-------|------------|-----------|---------------|
| Silica, Amorphous | 40-60 | | See below | Not available |
| Crystalline Silica | >1 | 14464-46-1 | See below | Not available |

SECTION III – PHYSICAL DATA FOR MATERIAL

| | | | |
|---------------------------------|----------------|------------------------------|--|
| Physical State: | Solid | Odour and Appearance: | No odour, buff to gray powder |
| Vapour Pressure (mm Hg): | Not Applicable | Density (20°C): | 55-65 lbs/cu ft. |
| Vapour Density: | Not Applicable | Solubility in Water: | Insoluble, forms colloidal suspension |
| Specific Gravity: | 2.3 | PH: | 9-10 (10% slurry) slightly acidic in water |
| Freezing Point: | Not Applicable | | |
| Boiling Point: | Not Applicable | | |

SECTION IV – FIRE AND EXPLOSION DATA

| | | | |
|---|----------------|---|----------------|
| Flammability: (If yes, under which conditions) | No | | |
| Means of Extinction: | Not Applicable | Special Procedures: | Not Applicable |
| Flashpoint and Method: | Not Applicable | Upper Flammability Limit: | Not Applicable |
| Auto ignition Temp: | Not Applicable | Lower Flammability Limit: | Not Applicable |
| Hazardous Combustion Products: | Not Applicable | | |
| Explosion Data | No | Sensitivity to Static Discharge: | No |
| Sensitivity Impact: | | | |



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SECTION V – HEALTH HAZARDS

Routes of Exposure and Effects:

Inhalation: Acute (short term) exposure to dust levels exceeding PEL may cause irritation of respiratory tract resulting in a dry cough. Chronic (long term) exposure to crystalline free silica contained by airborne diatomaceous earth and bentonite dust where levels are higher than TLV's may lead to the development of silicosis or other respiratory problems. Persistent dry cough, throat irritation and labored breathing on exertion are symptomatic. Exposure may aggravate existing upper respiratory tract disease such as asthma, bronchitis, or emphysema.

Eyes: Irritant

Skin: Possible drying results in dermatitis.

Ingestion: No adverse effects.

| Permissible Exposure Limits: (for airborne nuisance dust) | OSHA PEL | ACGIH | OHS | OHS STEL |
|--|------------------------|------------------------|-------------------------|----------|
| | 8hr TWA | TLV | 8hr TWA | |
| Silica Amorphous: | | | | |
| Total Dust | 15 mg/m ³ | Not detected | 4 mg/m ³ | n/a |
| Respirable Dust | 1.5 mg/m ³ | Not detected | 1.5 mg/m ³ | n/a |
| Crystalline, cristobalite | 0.05 mg/m ³ | 0.05 mg/m ³ | 0.025 mg/m ³ | n/a |

Effects of Chronic Exposure to Product:

Exposure to quantities of crystalline silica dust, in the forms of quartz, cristobalite, tridymite, may be present in airborne dust. If the concentration levels are an excess of the OSHA Permissible level (PEL-TWA 8hrs) of 0.05mg/m³ or the ACGIH Threshold Limit Value (TLV) of 0.05mg/m³, the crystalline silica is a known cause of silicosis, a progressive, sometimes fatal lung disease. From the International Agency for Research in Cancer (IARC) a 1997 review of "Crystalline Silica Inhaled in the form of Quartz or Cristobalite coded Monograph 68 concluded that Amorphous Silica is not classifiable to its carcinogenicity to humans.

SECTION VI – REACTIVITY DATA

Chemical Stability (if no under which conditions):

Yes

Incompatibility with other substances (if yes which ones):

Yes – Hydrofluoric Acid – silica may react violently

Reactivity and under what conditions:

Not Applicable

Hazardous Decomposition Products:

Not Applicable

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Personal Protective Equipment

Bureau of Mines or NIOSH approved respirators for protection against pneumoconiosis producing dusts recommended when dust is present. If the dust concentration is less than ten times the Permissible Exposure Limit (PEL) use quarter or half mask respirator with replacement dust filter or single use dust respirator with valve. If dust concentration is greater than ten times and less than one-hundred times the PEL use full faceplate respirator with replaceable dust filter. If greater than one-hundred and less than two-hundred times the PEL use power air purifying (positive pressure) respirator with replaceable filter. If greater than two-hundred times the PEL use type C automatic-air respirator, continuous flow type (positive pressure) with full face piece, head or helmet.

Gloves: Not needed under normal use

Respirator: Avoid breathing dust. Use respirator approved HIOSH/OSH for silica hearing dust.

Eye: Use protective goggles in high dust conditions.

Footwear: As required on jobsite

Clothing: Wear coveralls in high dust conditions

Engineering Controls: Local – control within recommended TLV/PEL, mechanical filtration to minimize dust. Refer to ACGIH publication (Industrial Ventilation" or similar publication.



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SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE CONTINUED

Leak & Spill Procedure: Vacuum clean spillage, wet sweep or wash away. Avoid creating dust.
Waste Disposal: Dispose of in accordance with local, provincial and federal regulations
Handling Procedures: Avoid creating dust. Repair or properly dispose of broken bags. Use wet process or enclosed handling.
Storage Requirements: Store in a dry place to maintain product quality. Keep containers closed and in good condition. Repair damaged containers.
Special Shipping Info: None

SECTION VIII – FIRST AID MEASURES

SPECIFIC MEASURES:

Inhalation: Remove victim to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Acute inhalation can cause dryness of the nasal passage and congestion of the upper respiratory tract.
Ingestion: Do not induce vomiting. Short-term exposure not considered harmful. Drink generous amounts of water to reduce bulk and drying effects.
Eye: Wash with generous quantities of water. Consult physician if irritation persists. May cause irritation or inflammation.
Skin Contact: Remove contaminated clothing. Wash with soap and water until clean. Use moisture renewing lotions if dryness occurs. Not absorbed by the skin. May cause dryness.

SECTION IX – DEPARTMENT OF TRANSPORTATION

| | |
|---|------------------------------------|
| Hazardous Material Description: None | Identification Number: None |
| Technical Name: None | Labels Required: None |
| Hazardous Class: None | |

SECTION XI – ENVIRONMENTAL DATA

Emergency Planning and Community Right to Know Information

This product contains no toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

EPA SARA 311/312 Hazard Classification: This product is considered hazardous under OSHA and SARA Title III, Section 301. Category: Chronic Health.

CERCLA Section 103: This product is subject to CERCLA reporting requirements as it is sold. Reports spills required under federal and local regulations.

EPZ Toxic Substance Control Act (TSCA): All of the ingredients are listed on the TSCA Chemical Substances Inventory.

SECTION XI – PREPARATION OF MSDS

Prepared by:
Safety Committee

Phone Number
306-634-3411

Date:
November 27, 2009