



MATERIAL SAFETY DATA SHEET

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1-613-996-6666 – CANUTEC – Transportation Emergency
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POTASH/POTASSIUM CHLORIDE

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: POTASH
Chemical Family: Inorganic Salt
WHMIS Classification: Not controlled
Workplace Hazard: Treat as nuisance dust
CAS#: 7447-40-7

Product Use: Shale inhibitor
TDG Classification: Not Regulated
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Species/Route)	LC ₅₀ (Species/Route)
Contains no WHMIS controlled products				

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: May cause mild eye irritation, including stinging, watering and redness. May cause mild irritation to the skin including redness and a burning sensation. High dust levels may cause upper respiratory tract irritation.

Effects of chronic exposure: Prolonged or repeated contact may cause dry skin. No information available on skin absorption.

Exposure limits: LD50 (Oral/ rat) = 2.6 g/kg

Irritancy of product: May cause mechanical irritation to the eyes. High dust levels may cause upper respiratory tract irritation

Sensitization to product: No information available

Carcinogenicity: No information available

Reproductive toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Name of toxicological synergistic products: No information available



SECTION IV: FIRST AID MEASURES

Skin contact: Flush with water. Dry area thoroughly and apply skin cream or moisturizing cream. If irritation persists, obtain medical attention.

Eye contact: Flush with gently flowing warm water for 15 minutes, or until irritation ceases. Hold eyelids open to ensure thorough flushing. If irritation persists, obtain medical attention.

Inhalation: Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties, or distress, continue obtain medical attention.

INGESTION: Do not induce vomiting unless directed to do so by medical personnel. If large amount swallowed, obtain medical attention.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: White to reddish-brown crystals; odourless

Odour threshold: Not applicable

Specific gravity (°C): 2.0

Vapor pressure (mmHG): ~0

Vapor density (Air=1): 2.57

Evaporation rate: Not applicable

Boiling point (°C): 1500 (sublimes)

Freeze/Melting point (°C): 773

pH (%): 8-9 (5% sol'n)

Solubility in Water: 342g/L @ 20°C



SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not flammable.

Means of extinguishing: Use media suitable for surrounding materials and packaging.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Avoid contact with hot nitric acid; may cause evolution of toxic nitrosyl chloride. Contact with other strong acids may produce hydrogen chloride gas. May react violently with bromine trifluoride and may explode if mixed with potassium permanganate and sulfuric acid.

Conditions of reactivity: Contact with incompatible materials.

Hazardous decomposition products: Hydrogen chloride and fumes of Na_2O .



SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Use NIOSH approved dust mask, or respirator with dust/mist filters if TLV is exceeded. 8 hour OEL Nuisance Dust Total Mass = 10mg/m³. Suggest cloth or leather work gloves and safety glasses with side shields or goggles. Ensure eyewash station and emergency shower are available

Specific engineering controls: Suggest local exhaust ventilation, if TLV's are exceeded.

Procedures for leak/spills: Use appropriate safety equipment. Collect by sweeping and scoop up or shovel. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Keep out of sewers, storm drains, surface waters and soils.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. This product may be suitable for disposal in landfills; check with local operator. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Dispose of all packaging in accordance with local regulations.

Handling procedures and equipment: Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.

Storage requirements: Store in a cool, dry well-ventilated place away from incompatibles. Keep bags or fiber drums dry at all times. Product is hygroscopic (may absorb moisture from the air when relative humidity >72%).

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: February 17, 2010

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.