

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Sulfate of Potash

CAS # 7778-80-5

Product use Specialty crop nutrient, turf grass fertilizer, general fertilizer uses, and specialty

industrial uses.

Manufacturer Great Salt Lake Minerals Corporation

A Compass Minerals Company 9900 West 109th Street, Suite 100 Overland Park, KS 66210 US Phone: 913-344-9200

CHEMTREC 1-800-424-9300 **CANUTEC** 1-613-996-6666

2. Hazards Identification

Emergency overview Contact may cause eye and skin irritation.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

Inhalation Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Potassium sulfate	7778-80-5	99 - 100

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Brush away excess of dry material. Flush with cool water. Wash with soap and water.

Obtain medical attention if irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

#15620 Page 1 of 5 Issue date 21-Feb-2012

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

May include and are not limited to: Oxides of sulphur.

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do

not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods for containment
Methods for cleaning up

Prevent entry into waterways, sewers, basements or confined areas.

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency

services and supplier for advice.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

Avoid breathing dust.

Wash thoroughly after handling.

Storage Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Exposure limits

Engineering controls

Ingredient(s) Exposure Limits

Potassium sulfate ACGIH-TLV

Not established

Not established

OSHA-PEL

NOT ESTABLISH

TWA PEL: No specific limits have been established for potassium sulfate (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total

Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for potassium sulfate (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV,

3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#15620 Page 2 of 5 Issue date 21-Feb-2012

Personal protective equipment

Eye / face protection Wear safety glasses with side shields.

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator

or NIOSH-approved filtering facepiece.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do

not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance Solid.

Colorwhite to brownFormCrystals or Granular.

Odor Odorless
Odor threshold Not available

Physical state Solid pH 7 (10%

 pH
 7 (10% solution)

 Melting point
 1956.20 °F (1069 °C)

 Freezing point
 1952.60 °F (1067 °C)

 Boiling point
 3072.20 °F (1689 °C)

 Pour point
 Not available

Pour pointNot availableEvaporation rateNot available

Flash point None

Auto-ignition temperature Not available Flammability limits in air, lower, % Not applicable

by volume

Flammability limits in air, upper, % Not applicable

by volume

Vapor pressureNot availableVapor densityNot available

Specific gravity 2.66 @21°C (H2O = 1)

Relative density

Octanol/water coefficient

Solubility (H2O)

Percent volatile

Molecular weight

Molecular formula

2.662 g/cm3

Not available

Not available

174.2700

K2SO4

10. Stability and Reactivity

Reactivity None known.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoidDo not mix with other chemicals.

Incompatible materials Magnesium. Aluminum.

Hazardous decomposition products May include and are not limited to: Oxides of sulphur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Potassium sulfate Not available

#15620 Page 3 of 5 Issue date 21-Feb-2012

Component analysis - Oral LD50

Ingredient(s) LD50

Potassium sulfate 6600 mg/kg rat

Effects of acute exposure

EyeMay cause irritation.SkinMay cause irritation.

Inhalation Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion May cause stomach distress, nausea or vomiting.

SensitizationNon-hazardous by WHMIS/OSHA criteria.Chronic effectsNon-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Not classified or listed by IARC, NTP, OSHA and ACGIH.

MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

Ecotoxicity See below

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Potassium sulfate 7778-80-5 72 Hr EC50 Desmodesmus subspicatus: 2900 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Potassium sulfate 7778-80-5 96 Hr LC50 Lepomis macrochirus: 653 mg/L; 96 Hr LC50 Lepomis macrochirus: 3550

mg/L [static]; 96 Hr LC50 Pimephales promelas: 510-880 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data

Potassium sulfate 7778-80-5 48 Hr EC50 Daphnia magna: 890 mg/L

Not available Persistence / degradability Bioaccumulation / accumulation Not available Not available Mobility in environmental media **Environmental effects** Not available Aquatic toxicity Not available Not available Partition coefficient Not available Chemical fate information Other adverse effects Not available

13. Disposal Considerations

Disposal instructionsWaste must be disposed of in accordance with federal, state/provincial and local

environmental control regulations.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

WHMIS status Not Controlled

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

US Federal regulations This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Nο

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely No.

hazardous substance

Section 311 hazardous chemical No

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

State regulations WARNING: This product contains a chemical known to the State of California to cause

cancer and birth defects or other reproductive harm.

Inventory name

Country(s) or region Inventory name On inventory (yes/no)*

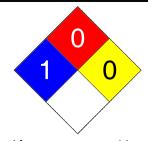
CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information







Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

use of or reliance on any information contained in this document.

Issue date21-Feb-2012Effective date01-Mar-2012Expiry date01-Mar-2015

Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

Other information This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.