

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300**

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

- 1.1 **PRODUCT IDENTIFIER:**  
TRADE NAME: **0-0-50 SULFATE OF POTASH**
- 1.2 **RECOMMENDED USE:** FERTILIZER – CROP NUTRIENT
- 1.3 **SUPPLIER DETAILS:**  
LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286
- 1.4 **24 Hour Emergency Phone:** 1-800-424-9300 - **Medical Emergencies:** 1-866-944-8565  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to 29 CFR 1910.1200**

Acute Toxicity - Oral	Category 5	H303
Acute toxicity - Dermal	Category 5	H313
Specific Target Organ Toxicity (Single Exposure)	Category 3	H335

**2.2 Label elements**



- Signal word: **WARNING**
- Hazard Statement: H313 – May be harmful in contact with skin.  
H303 – May be harmful if swallowed  
H335 – May cause respiratory irritation.
- Precautionary Statement: P264 – Wash hands and face thoroughly after handling.  
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.  
(Prevention): P271 – Use only outdoors or in a well-ventilated area.
- Precautionary Statement: P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
(Response): P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
- Precautionary Statement: P403+P233 – Store in a well-ventilated place. Keep container tightly closed.  
(Storage): P405 – Store locked up.

**2.3 Other hazards**

None known



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### 3. COMPOSITION, INFORMATION ON INGREDIENTS

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#### 3.1 Substances

#### 3.2 Mixtures

##### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Concentration [%]
Sulfate of Potash	7778-80-5	92 – 100

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### 4. FIRST AID MEASURES

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#### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

- Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
- Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

#### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Inhalation: May cause respiratory irritation.  
Skin: May cause mild skin irritation.

#### 4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565**

Take container, label or product name with you when seeking medical attention.

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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### 5. FIRE FIGHTING MEASURES

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#### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam, water spray or fog. Do not use water jet as this will spread the fire.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released; may release small quantities of chlorine gas.

#### 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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**6. ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP**

Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush contaminated area thoroughly with water.  
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to Remove residual contamination.  
Never return spills to original containers for re-use.

**7. HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING:**

Advice on Safe Handling: Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

**7.2 CONDITIONS FOR SAFE STORAGE:**

Requirements for Storage Areas and Containers: Store in cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Product will become thicker at cold temperatures but effectiveness will not be affected. Warm product before use. Do not contaminate water, food or feed by storage or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS:  
OCCUPATIONAL EXPOSURE LIMITS**

**U.S. Workplace Exposure Level (ACGIH) TLVs**

Components	Type	Value
No listings	TWA	

**U.S. Workplace Exposure Level (OSHA) PELs**

Components	Type	Value
Particulates not otherwise classified / regulated (PNOC; PNOR)	TWA	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (Respirable fraction)

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Specimen
No listings		

**8.2 EXPOSURE CONTROLS:**

**Engineering Measures**

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

**Individual Protection Measures:**

Eye / Face Protection: Goggles or shielded safety glasses are recommended.  
Skin Protection: Long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus socks.  
Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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- 9.1 APPEARANCE : Granules  
ODOR: Odorless.  
ODOR THRESHOLD: No data available.  
COLOR: White to brown.  
pH: 7.0 (10% solution)  
MELTING POINT / FREEZING POINT: 1067 °C (1,952.6 °F) (Melting point)  
BOILING POINT: 1,689 °C / 3072.2 °F  
FLASH POINT: None.  
FLAMMABILITY (solid, gas): No data available.  
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.  
VAPOR PRESSURE: Not applicable.  
SOLUBILITY: Soluble  
PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.  
AUTO-IGNITION TEMPERATURE: No data available.  
DECOMPOSITION TEMPERATURE: No data available  
VISCOSITY, dynamic: No data available  
SPECIFIC GRAVITY (Water = 1): 2.66 g/ml  
BULK DENSITY: 165.05 lbs./ft<sup>3</sup> / 2,643.8 kg/m<sup>3</sup>

Note: These physical data are typical values based on material tested but may vary from sample to sample.  
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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### 10. STABILITY AND REACTIVITY

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- 10.1 REACTIVITY  
Stable
- 10.2 CHEMICAL STABILITY  
Stable under normal temperature conditions
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS  
Reaction with incompatible metals will release dangerous hydrogen gas. Thermal decomposition in presence of air may produce oxides of carbon, nitrogen, sulfur, and phosphorous. Will not polymerize.
- 10.4 CONDITIONS TO AVOID  
None known.
- 10.5 INCOMPATIBLE MATERIALS  
Strong oxidizing agents. Strong acids. Protect from moisture.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS  
None known.

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### 11 TOXICOLOGICAL INFORMATION

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- 11.3 LIKELY ROUTES OF EXPOSURE  
Eye contact. Skin contact.  
LC<sub>50</sub> (rat): No data available  
LD<sub>50</sub> Oral (rat): 6,600 mg/kg  
LD<sub>50</sub> Dermal (rat): No data available  
Acute Toxicity Estimates: No data available  
Skin Irritation (rabbit): May cause skin irritation.  
Eye Irritation (rabbit): May cause eye irritation  
Specific Target Organ Toxicity: Single exposure: May cause respiratory irritation.  
Aspiration: No data available  
Skin Sensitization (guinea pig): Not a sensitizer  
Carcinogenicity: No data available  
Germ Cell Mutagenicity: No data available  
Interactive Effects: None known



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## 12 ECOLOGICAL INFORMATION

### 12.3 ECOTOXICITY

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is not intended for use in aquatic settings.

#### Ecotoxicological Data

Product	Species	Test Results
	Fathead minnow	510 - 880 mg/L 96-hour LC <sub>50</sub>
	Daphnia Magna	890 mg/L 48-hour EC <sub>50</sub>

Drift or runoff may adversely affect non-target plants.  
Do not apply directly to water.  
Do not contaminate water when disposing of equipment wash water.  
Do not apply when weather conditions favor drift from target area.

### 12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

### 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

### 12.4 MOBILITY IN SOIL

Binds to clay particles in soil.

### 12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

## 13 DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

Do not reuse empty bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food or feed by storage or disposal.

## 14 TRANSPORT INFORMATION

### 14.3 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, DRY (NMFC 68140, SUB 5; CLASS 50)

## 15 REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	1 Health	0 Least	1 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	B PPE
	4 Severe		

### SARA Hazard Notification/Reporting

SARA Title III Hazard Category:	Immediate	<u>  N  </u>	Fire	<u>  N  </u>	Sudden Release of Pressure	<u>  N  </u>
	Delayed	<u>  N  </u>	Reactive	<u>  N  </u>		

Reportable Quantity (RQ) under U.S. CERCLA: Not listed.

SARA, Title III, Section 313: Not listed.

RCRA Waste Code: Not listed.

CA Proposition 65: Not applicable



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**16 OTHER INFORMATION**

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**SDS STATUS:** New.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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