

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL DAY OR NIGHT 1-800-561-8273 or CHEMTREC – DAY OR NIGHT 1 800-424-9300**

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

**1.1 PRODUCT IDENTIFIER:**

**TRADE NAME:** LIME SULPHUR

**1.2 RECOMMENDED USE:** GROUP M FUNGICIDE

**1.3 DISTRIBUTED BY:**

LOVELAND PRODUCTS CANADA, INC.  
789 DONNYBROOK DRIVE • Dorchester, Ontario N0L 1G5

**1.4 24 Hour Emergency Phone: (Chemtrec):** 1-800-424-9300 (Toll Free) - **Additional Emergency Phone** 1-800-561-8273  
Loveland Technical Service: 1-800-328-4678

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Eye Damage/Irritation	Category 1	H318
Acute Toxicity – Oral	Category 4	H302
Acute Toxicity – Inhalation	Category 4	H332
Skin Corrosion/Irritation	Category 2	H315
Aquatic Toxicity – Acute	Category 3	H402

**2.2 Label elements**



Signal word:	DANGER
Hazard Statement:	H318 – Causes serious eye damage. H302 – Harmful if swallowed. H332 – Harmful if inhaled. H315 – Causes skin irritation. H402 – Harmful to aquatic life.
Precautionary Statement: (Prevention):	P261 – Avoid breathing dust/fume/gas/mist/vapours/spray. P264 – Wash thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P271 – Use only outdoors or in a well-ventilated area. P280 – Wear protective gloves / eye protection / face protection.
Precautionary Statement: (Response):	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P310 – Immediately call a POISON CENTRE or doctor/physician. P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. P330 – Rinse mouth. P304+P341: – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 – Call a POISON CENTRE or doctor/physician if you feel unwell. P302+P352 – IF ON SKIN: Wash with plenty of water/shower. P321 – Specific treatment (see First Aid on the label). P332+P313 – If skin irritation occurs: Get medical advice/attention. P362 – Take off contaminated clothing and wash before reuse.
Precautionary Statement: (Storage):	Not applicable.
Precautionary Statement: (Disposal):	P501 – Dispose of contents/container in accordance with national and provincial regulations.

**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

Chemical Name:	CAS No.	Concentration [%]
Calcium Polysulphide (CaS <sub>x</sub> )	1344-81-6	30.00

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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.

- If swallowed:** Call a poison control centre 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 the poison control centre or doctor. Do not give anything by mouth to an unconscious person.
- If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.
- If in eyes:** 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 centre or doctor for treatment advice.
- If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

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

Symptoms: Eyes: Causes serious eye damage.  
Oral: Harmful if swallowed.

#### 4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273**

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**NOTES TO PHYSICIAN:** If in eyes, specialized ophthalmologic attention may be necessary. If swallowed probable mucosal damage may contraindicate gastric lavage. There is no specific antidote; treat symptomatically.

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### 5. FIRE FIGHTING MEASURES

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#### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam, water spray or fog.

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

Specific Hazards During Firefighting: Thermal decomposition will generate oxides of carbon, oxides of sulfur, oxyhydrocarbon derivatives, and sulfur derivatives including hydrogen sulphide, irritating and possibly toxic and/or hazardous gases.

#### 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.



# SAFETY DATA SHEET

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### 6. ACCIDENTAL RELEASE MEASURES

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

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

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

#### 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: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Not for use or storage in or around the house. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. Do not contaminate water, food or feed by storage and disposal.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS: OCCUPATIONAL EXPOSURE LIMITS

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

Components	Type	Value
Not listed		

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

Components	Type	Value
Not listed		

#### 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 to maintain airborne exposure bellows below 10 ppm (Hydrogen Sulfide). Observe Occupational Exposure Limits and minimize the risk of inhalation of vapours 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, such as polyethylene or polyvinylchloride. Shoes 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-84A with NIOSH equipped N, R, or P class filter media. 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 :	Liquid
ODOUR:	Rotten egg (mercaptan).
ODOUR THRESHOLD:	No data available.
COLOUR:	Red-orange liquid.
pH:	10.9 – 11.2
MELTING POINT / FREEZING POINT:	No data available
BOILING POINT:	No data available.
FLASH POINT:	No data available.
FLAMMABILITY (solid, gas):	No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available.
VAPOUR PRESSURE:	Not applicable.
SOLUBILITY:	Miscible.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER:	No data available.
AUTO-IGNITION TEMPERATURE:	No data available.
DECOMPOSITION TEMPERATURE:	No data available.
VISCOSITY: (kinematic):	No data available
SPECIFIC GRAVITY (Water = 1):	1.27 g/ml
DENSITY:	1.27 kg/L

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

No data available. Will not polymerize.

### 10.4 CONDITIONS TO AVOID

Excessive heat and moisture.

### 10.5 INCOMPATIBLE MATERIALS

Strong acids.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition will generate oxides of carbon, oxides of sulfur, oxyhydrocarbon derivatives, and sulfur derivatives including hydrogen sulphide, irritating and possibly toxic and/or hazardous gases.

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## 11 TOXICOLOGICAL INFORMATION

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### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Harmful if swallowed. Harmful if inhaled.

**LC<sub>50</sub> (rat):** 2.72 mg/L (4 HR).

**LD<sub>50</sub> Oral (rat):** 820 mg/kg

**LD<sub>50</sub> Dermal (rat):** > 2000 mg/kg

**Acute Toxicity Estimates:** No data available

**Skin Irritation (rabbit):** Mild irritant.

**Eye Irritation (rabbit):** Causes irreversible eye damage.

**Specific Target Organ Toxicity:** No data available.

**Aspiration:** No data available

**Skin Sensitization (guinea pig):** Not a sensitizer

**Carcinogenicity:** Not listed.

**Germ Cell Mutagenicity:** No data available

**Interactive Effects:** None known



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**12 ECOLOGICAL INFORMATION**

**12.3 ECOTOXICITY**

The product is toxic to aquatic invertebrates. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Ecotoxicological Data**

	<b>Species</b>	<b>Test Results</b>
Calcium Polysulphide	Rainbow trout	8.8 mg/L – 96-hour LC <sub>50</sub>
	Bluegill	52.9 mg/L – 96-hour LC <sub>50</sub>
	Fathead minnow	42.9 mg/L – 96-hour LC <sub>50</sub>
	Daphnia magna	13.7 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: Expected to rapidly dissociate in the presence of any moisture to form calcium cation and elemental sulfur.

**12.3 BIOACCUMULATIVE POTENTIAL**

Bioaccumulation: Does not bioaccumulate.

**12.4 MOBILITY IN SOIL**

Expected to be insignificant.

**12.5 OTHER ADVERSE EFFECTS**

Assessment: No data available.

**13 DISPOSAL CONSIDERATIONS**

**13.1 WASTE TREATMENT METHODS**

Do not reuse containers for any purpose. Refillable Container: For disposal, the container may be returned to the point of purchase (dealer/distributor). It must be refilled by the dealer/distributor with the same product. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

**14 TRANSPORT INFORMATION**

**14.3 LAND TRANSPORT**

TDG Shipping Description: NOT REGULATED (Packages may bear USDOT markings and labels)

U.S. Surface Freight Classification: INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS; NOI; OTHER THAN POISON (NMFC 102120; CLASS 60)

**15 REGULATORY INFORMATION**

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS**

**NFPA & HMIS Hazard Ratings:**

**NFPA**

**HMIS**

3 Health	0 Least	3 Health
0 Flammability	1 Slight	0 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	H PPE
	4 Severe	

**SARA Hazard Notification/Reporting**

**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
 Delayed N Reactive Y



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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:** Format revised.

**PREPARED BY:** Product Stewardship and Regulatory Affairs

**REVIEWED BY:** Safety, Health and Environment

**PEST CONTROL PRODUCTS ACT REG. NO.:** 16465

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