

**SAFETY DATA SHEET**

SDS NUMBER: 000849-15-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/16/15

**GLACIAL® SPRAY FLUID**

SUPERSEDES: 11/17/08

**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:** GLACIAL® SPRAY FLUID**1.2 RECOMMENDED USE:** HORTICULTURAL SPRAY FLUID FOR INSECT, MITE AND DISEASE CONTROL**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**

Oral acute toxicity	Category 4	H302
Dermal acute toxicity	Category 4	H312
Eye Irritation	Category 2B	H320
Inhalation acute toxicity	Category 4	H332

**2.2 Label elements**

Signal word:

WARNING

Hazard Statement:

H302 – Harmful if swallowed.  
 H312 – Harmful in contact with skin.  
 H317 – May cause an allergic skin reaction.  
 H320 – Causes eye irritation.  
 H332 – Harmful if inhaled.

Precautionary Statement:

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P262 – Do not get in eyes, on skin, or on clothing.  
 P264 – Wash hands thoroughly after handling.  
 (Prevention): P271 – Use only outdoors or in a well-ventilated area.  
 P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
 P102 – Keep out of reach of children.

Precautionary Statement:

P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
 P303+P361+P353: IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

(Response):

P101 – If medical advice is needed, have the product container or label at hand.  
 P102 – Keep out of reach of children.  
 P103 – Read label before use.  
 P363 – Wash contaminated clothing before reuse.  
 P391 – Collect spillage.

Precautionary Statement:

P402+P404: Store in a dry place. Store in a closed container.

(Storage):

P234 – Keep only in original container.

# SAFETY DATA SHEET

SDS NUMBER: 000849-15-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/16/15

GLACIAL® SPRAY FLUID

SUPERSEDES: 11/17/08

## 2.3 Other hazards

None known

## KEEP OUT OF REACH OF CHILDREN –

Appearance and odor: Colorless to light yellow liquid with slight petroleum odor.

### Potential Health effects

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

**Eyes** Causes serious eye damage.

**Skin** Harmful in contact with skin.

**Inhalation** Harmful if inhaled.

**Ingestion** Harmful if swallowed.

**Target organs** Eyes. Ingestion.

**Signs and symptoms** Causes eye irritation.

**Potential environmental effects** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

---

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

---

### 3.1 Substances

### 3.2 Mixtures

#### Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Classification	Concentration [%]
Mineral Oil	8042-47-5	Oral tox. 4; H302 Dermal tox. 4; H312	98.40
*Other ingredients	n/a	Eye irrit. 2B; H320 Inh. tox. 4; H332	1.60

\*Ingredients not specifically listed are non-hazardous and are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)

---

## 4. FIRST AID MEASURES

---

### 4.1 Description of First Aid Measures

**General Advice:** Get medical attention if symptoms occur.

**If swallowed:** 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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 center 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 center or doctor for treatment advice.

**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 center or doctor for further treatment advice.

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

**Symptoms:** Eyes: Causes eye irritation.  
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: 1-866-944-8565**

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

**NOTES TO PHYSICIAN:** Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**SAFETY DATA SHEET**

SDS NUMBER: 000849-15-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/16/15

**GLACIAL® SPRAY FLUID**

SUPERSEDES: 11/17/08

**5. FIRE FIGHTING MEASURES****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: Oxides of carbon, irritating vapors or asphyxiants and other unknown materials may be formed in a fire situation.

**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.

**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: 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. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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

Methods for Clean-Up: Eliminate all ignition sources. Avoid contact. Stop leak if without risk. Contain the spill (wear the proper PPE) by absorbing spilled liquid with clay or other absorbent material; scoop or sweep up material and place in container. Decontaminate area by washing with soapy water solution and absorbing the water with absorbent material. Check local, state and federal regulations for proper disposal.  
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 immediately 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: 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. After partial use, replace lids and close tightly. 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 data available		

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

Components	Type	Value
No data available		

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Specimen
No listings		

# SAFETY DATA SHEET

SDS NUMBER: 000849-15-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/16/15

GLACIAL® SPRAY FLUID

SUPERSEDES: 11/17/08

## 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, such as barrier laminate, nitrile rubber, neoprene rubber or viton. Shoes plus socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment approved by MSHA/NIOSH with NIOSH-approved 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.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

9.1 APPEARANCE :	Liquid
ODOR:	Slight petroleum.
ODOR THRESHOLD:	No data available.
COLOR:	Clear to light amber.
pH:	Neutral
MELTING POINT / FREEZING POINT:	No data available
BOILING POINT:	No data available
FLASH POINT:	350°F (176.7°C).
FLAMMABILITY (solid, gas):	No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available.
VAPOR PRESSURE:	No data available.
SOLUBILITY:	Insoluble.
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):	0.8507 – 0.8747 g/ml
BULK DENSITY:	7.1 – 7.3 lbs./gal / 0.85 – 0.87 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.

---

## 10. STABILITY AND REACTIVITY

---

### 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.

### 10.5 INCOMPATIBLE MATERIALS

Strong oxidizers, reducing agents, acids and bases.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion may lead to formation of oxides of carbon, irritating vapors and/or other asphyxiants.

---

## 11 TOXICOLOGICAL INFORMATION

---

### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Ingestion. Skin contact. Inhalation.

LC<sub>50</sub> (rat): 5 mg/L (4 HR).

LD<sub>50</sub> Oral (rat): >2,000 mg/kg

LD<sub>50</sub> Dermal (rat): > 2,000 mg/kg

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): Irritant.

Eye Irritation (rabbit): Irritant.

Specific Target Organ Toxicity: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Potential sensitizer

Carcinogenicity: No data available

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

**SAFETY DATA SHEET**

SDS NUMBER: 000849-15-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/16/15

**GLACIAL® SPRAY FLUID**

SUPERSEDES: 11/17/08

**12 ECOLOGICAL INFORMATION****12.3 ECOTOXICITY**

The product may be toxic to fish and aquatic invertebrates. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Information below is based on the technical ingredient 2,4-D acid.

**Ecotoxicological Data**

	<u>Species</u>	<u>Test Results</u>
No data available		

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**

No data available.

**12.5 OTHER ADVERSE EFFECTS**

Assessment: No data available.

**13 DISPOSAL CONSIDERATIONS****13.1 WASTE TREATMENT METHODS**

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <http://www.acrecycle.org/>. Do not contaminate water, food or feed by storage or disposal.

**14 TRANSPORT INFORMATION****14.3 LAND TRANSPORT**

DOT Shipping Description: NOT REGULATED BY DOT

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: 60)

**15 REGULATORY INFORMATION****15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS****NFPA & HMIS Hazard Ratings:****NFPA**

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

**HMIS**

1 Health
1 Flammability
0 Reactivity
B PPE

**SARA Hazard Notification/Reporting****SARA Title III Hazard Category:**

Immediate	<u>Y</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 listed.

# SAFETY DATA SHEET

SDS NUMBER: 000849-15-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/16/15

**GLACIAL® SPRAY FLUID**

SUPERSEDES: 11/17/08

---

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

## CAUTION

Harmful if swallowed or absorbed through skin or inhaled.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

This product is a potential skin sensitizer.

Causes moderate eye irritation.

Avoid contact with eyes, skin, or clothing.

Avoid breathing spray mist.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash clothing before reuse.

---

## 16 OTHER INFORMATION

**SDS STATUS:** Format revised.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

**EPA REG. NO.:** 34704-849

*®Glacial is a registered trademark of Loveland Products, Inc.*

**Disclaimer and Limitation of Liability:** This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.