

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC® – TOLL FREE 1-800-424-9300

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED FOR:

LOVELAND PRODUCTS, INC.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-866-944-8565
Product Emergency Phone: 1-540-966-3035

PRODUCT NAME: PENETRON® SPRAY ADJUVANT
CHEMICAL NAME: NONE
CHEMICAL FAMILY: NONIONIC SURFACTANT BLEND
CA REG: 34704-50090
WA REG: 34704-13001
SDS Number: 1000376477-13b-LPI **MSDS Revisions:** Section 1

Date of Issue: 10/29/13

Supersedes: 04/09/13

2. HAZARDS IDENTIFICATION

KEEP OUT OF REACH OF CHILDREN – WARNING: Irritant. Emergency overview: Product causes substantial but temporary eye injury and skin irritation. **Potential health effects: Eyes:** Causes eye irritation. **Skin:** Irritating to skin. **Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system. **Ingestion:** Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea. Harmful if swallowed, absorbed through skin or inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist. Primary routes of exposure are dermal, inhalation, ingestion.

This product is amber liquid with amine-like odor.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemical Name and Synonyms:</u> | <u>Percent Hazardous by Weight:</u> | <u>CAS No.</u> | <u>TLV (Units)</u> |
|---|-------------------------------------|----------------|--------------------|
| None | <u>Non Hazardous</u> | | |
| This product is a blend of the following ingredients: Nonionic blend | 100.00 | Proprietary | not listed |

4. FIRST AID MEASURES

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 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 to 20 minutes. Call a poison control center or doctor for treatment advice.

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 inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water. Water fog. Foam. Carbon dioxide (CO₂). Water can be used to cool fire exposed containers.

SPECIAL FIRE FIGHTING PROCEDURES: 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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may burst if exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Dike and contain. If uncontaminated, reuse product. If contaminated, absorb spill with clay, sand, or sawdust. Place in a chemical waster container for proper disposal.

CAUTION: Spill area will be quite slippery.

7. HANDLING AND STORAGE

HANDLING: DO NOT handle, store or open near open flame, sources of heat or sources of ignition. Avoid contact with skin. Avoid eye contact. Wear personal protective equipment. Do not breathe mist.

STORAGE: Protect material from direct sunlight. Keep away from heat, sparks and open flame. Keep container tightly closed. Suggested storage above 40°F (4.4°C). If frozen, warm product before use. Store in a cool, dry place. Store in original container. Keep away from children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

APPROPRIATE ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

GENERAL HYGIENE CONSIDERATIONS: Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Eye wash fountain and emergency showers are recommended.

INDIVIDUAL PROTECTION MEASURES

RESPIRATORY PROTECTION: If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

EYE / FACE PROTECTION: Avoid contact with eyes. Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Avoid contact with skin. Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear chemical-resistant gloves.

OSHA PEL 8 hr TWA
not listed

ACGIH TLV-TWA
not listed

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Amber liquid with amine-like odor

SPECIFIC GRAVITY (Water = 1): 1.0388 g/ml

VAPOR PRESSURE: Not known

FLASHPOINT: >201°F / >93.9°C

VAPOR DENSITY (Air = 1): Not known

PERCENT VOLATILE (by volume): Not known

FLAMMABLE LIMITS (LFL & UFL): Not known

AUTO-IGNITION TEMPERATURE: Not known

DECOMPOSITION TEMPERATURE: Not known

BULK DENSITY: 8.67 lbs/gal. / 1.04 Kg/L

BOILING POINT: >200°F / >93°C

VISCOSITY: 45 cP @25°C

EVAPORATION RATE: (Butyl Acetate = 1): Not known

RELATIVE DENSITY: Not known

SOLUBILITY: Soluble

pH: 10.3 (5% solution)

MELTING POINT: No Data

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

REACTIVITY: None known.

CHEMICAL STABILITY: Stable

POSSIBILITY OF HAZARDOUS REACTIONS: None known. Will not polymerize.

CONDITIONS TO AVOID: Avoid heat, flames and sparks.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, skin, ingestion, and/or inhalation.

LC₅₀ (rat): Not determined or available

Oral LD₅₀ (rat): Not known for product

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Acute Toxicity Estimates: Not available

Serious Eye Damage / Irritation (rabbit): Not determined

Respiratory or Skin sensitization (guinea pig): Not a skin sensitizer

Specific Target Organ Toxicity: None known.

Dermal LD₅₀ (rabbit): Not known

Aspiration: Not determined

Skin Corrosion / Irritation (rabbit): Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity: Peg-(n) Polyethylene Glycol (25322-68-3): LC₅₀ Atlantic salmon (*Salmo salar*): > 1000 mg/l 96 hours.
Nonionic blend (proprietary): EC₅₀ Water flea (*Daphnia magna*): 3.7 – 7.2 mg/l 48 hours; LC₅₀ Rainbow trout, Donaldson trout (*Oncorhynchus mykiss*): 0.51 – 0.91 mg/l 96 hours.

Persistence and Degradability: Not known.

Bioaccumulative Potential: Not known.

Mobility in Soil: Not known.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS: This material must be disposed of according to local, state, and federal requirements and procedures. 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

UN No.: NOT APPLICABLE

UN PROPER SHIPPING NAME: NOT REGULATED

TRANSPORT HAZARD CLASS: NOT APPLICABLE

PACKING GROUP: NOT APPLICABLE

ENVIRONMENTAL HAZARDS: NOT DETERMINED

TRANSPORT IN BULK (ACCORDING TO ANNEX II OF MARPOL 73/78): – IBC CODE: NOT APPLICABLE

Special Precautions (for User): NOT APPLICABLE

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

15. REGULATORY INFORMATION**WARNING****NFPA & HMIS Hazard Ratings:****NFPA**

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

HMIS

| |
|----------------|
| 1 Health |
| 0 Flammability |
| 1 Reactivity |
| X 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: WARNING: This product contains Ethylene Oxide (CAS: 75-21-8), a chemical known to the State of California to cause cancer or birth defects or other reproductive harm.

16. OTHER INFORMATION

MSDS STATUS: Section 1 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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