

MATERIAL SAFETY DATA SHEET

PROZAP® LD-44Z INSECT FOGGER

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

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

Loveland Industries, Inc.
P.O. Box 1289 • Greeley, CO 80632-1289

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-800-301-7976

PRODUCT NAME: PROZAP® LD-44Z
CHEMICAL NAME: Pyrethrin Mixture
CHEMICAL FAMILY: Insecticide
EPA REG. NO.: 34704-846-36208

MSDS Number: 34704846-03 MSDS Revisions: All sections reviewed; New ANSI format Date Of Issue: 04/11/03 Supersedes: 11/11/96

2. COMPOSITION, INFORMATION ON INGREDIENTS

| Chemical Ingredients: | Percentage by Weight | CAS No. | TLV (Units) |
|------------------------------|----------------------|-----------|-----------------------|
| Pyrethrins | 0.50 | 8003-34-7 | 5 mg/m ³ |
| Piperonyl Butoxide Technical | 4.00 | 51-03-6 | None Established |
| Isopropanol | 15.95 | 67-63-0 | 983 mg/m ³ |
| Dimethyl Ether | 45.00 | 115-10-6 | None Established |
| Inert Ingredients | 34.55 | | |

3. HAZARDS IDENTIFICATION SUMMARY

CAUTION: KEEP OUT OF REACH OF CHILDREN. CONTENTS UNDER PRESSURE

This product is a clear, yellow pressurized liquid with characteristic Pyrethrum odor. Primary routes of entry are Inhalation, eye contact and skin contact.

4. FIRST AID MEASURES

Eyes: Flush eyes slowly and gently with water for 15-20 minutes. Remove contact lenses if present after first 5 minutes. Consult a physician for treatment advice.
Skin: Remove all contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a physician for treatment advice.
Ingestion: If swallowed, give a glass of water to sip if able to swallow. Do not induce vomiting unless told to by a doctor. Do not give anything by mouth to an unconscious person. Call a physician to get medical attention; the emergency telephone number is 1-800-228-5635 extension 136
Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): <39°F (<3.9°C) / ASTM D92
FLAMMABLE LIMITS (LEL & UEL): LEL: 3.4%; UEL: 18.0% - NFPA 30B Flammability: Level 1 Aerosol
EXTINGUISHING MEDIA: Considered flammable; dry chemical, carbon dioxide, alcohol foam, foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides.
SPECIAL FIRE FIGHTING PROCEDURES: None required.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposures to temperatures above 130°F may cause bursting.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Small spill or leak: Eliminate all ignition sources. Wear chemical resistant gloves and impervious clothing. Eye protection and NIOSH-approved self-contained breathing apparatus is recommended.

Large spill or leak: Keep away from heat and sources of ignition. Stop leak if without risk. Finish cleaning spill area by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

CAUTION: Keep spills and cleaning runoff contained and avoid possibility of static discharge.

7. HANDLING AND STORAGE

HANDLING: Store in original container, tightly closed in a cool area away from heat or open flame. Keep away from children, feed and food products, and seed.

OTHER PRECAUTIONS: Toxic to fish and other aquatic organisms. Do not contaminate water supplies by handling and storage of product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Local ventilation recommended. Work in well-ventilated area
RESPIRATORY PROTECTION: Wear a MSHA/NIOSH approved pesticide respirator with organic vapor cartridge and pesticide prefilter.
EYE PROTECTION: Chemical goggles or shielded safety glasses.
SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

Isopropanol OSHA PEL 8 hr TWA 400 ppm/980 mg/m³ ACGIH TLV-TWA 400 ppm/983 mg/m³

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear, yellow, pressurized liquid with characteristic Pyrethrum odor
SPECIFIC GRAVITY (Water= 1): 0.924 g/ml
VAPOR PRESSURE: 65 psig @ 70°F/21.1°C
PERCENT VOLATILE (by volume): 41%
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.

BULK DENSITY: 7.71 #/gal.
BOILING POINT: Not established
EVAPORATION RATE: Not established

SOLUBILITY: Slight
pH: Not established

10. STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: None known.
Hazardous Decomposition Products: Thermal decomposition in open flame may result in formation of CO₂ or CO.
Hazardous Polymerization: Will not occur.

CONDITIONS TO AVOID: Do not spray into flame or onto very hot surfaces.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): 4350 mg/kg
Eye Irritation (rabbit): Caused mild conjunctival irritation.
Inhalation LC₅₀ (rat): > 5.42 mg/L (4-hour).
Carcinogenic Potential: No components listed in NTP and IARC as a carcinogen.

Acute Dermal LD₅₀ (rabbit): > 2000 mg/kg
Skin Irritation (rabbit): May cause irritation.
Ingestion: May cause stomach distress, nausea or vomiting.

12. ECOLOGICAL INFORMATION

Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. This product is toxic to fish and other aquatic life. Toxic to birds and other wildlife. Extremely toxic to bees. Do not contaminate water when disposing of equipment wash water.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations. Do not puncture or burn empty container. Replace cap, wrap empty container in several layers of newspaper and discard in trash.

14. TRANSPORT INFORMATION

DOT Shipping Description: CONSUMER COMMODITY, ORM-D
U.S. Surface Freight Classification: INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS; OTHER THAN POISON (NMFC 102120; CLASS: 60)
Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

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

SARA Hazard Notification/Reporting

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

Reportable Quantity (RQ) under U.S. CERCLA: Pyrethrins (CAS: 8003-34-7) 1 pound
SARA, Title III, Section 313: Piperonyl Butoxide (CAS: 51-03-6) 4.00%
RCRA Waste Code: Not listed
CA Proposition 65: Not listed.

16. OTHER

MSDS STATUS: Review of all sections; New ANSI Format

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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