

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 Products, Inc.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-800-301-7976
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: FIGHTER F-10™ 10% ANTIFOAMER DEFOAMER
CHEMICAL NAME: Dimethylpolysiloxane; Siloxanes and silicones, dimethyl; Dimethylpolysiloxane hydrolyzate
CHEMICAL FAMILY: Anti-foam
CALIF. REG. NO.: not applicable
WA REG. NO.: not applicable
MSDS Number: FF10-04b-LPI MSDS Revisions: See section 16 Date Of Issue: 07/08/04 Supersedes: 04/12/04

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION – Eye contact with product may cause mild irritation. Skin contact is not expected to be a hazard. Inhalation is not expected to be a hazard. Ingestion of product may cause irritation.

This product is white liquid with a mild odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Table with 4 columns: Chemical Ingredients, Percentage by Weight, CAS No., TLV (Units). Rows include Dimethylpolysiloxane hydrolyzate (10.00%) and Other Ingredients (90.00%).

4. FIRST AID MEASURES

If in Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart of ensure flushing of entire surface. Call physician.
If on Skin: Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.
If Swallowed: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
If Inhaled: Do not induce vomiting unless told to do so by a physician or poison control center. If vomiting occurs spontaneously, keep head below hips to prevent breathing of vomit into lungs. Call a physician or poison control center immediately.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): >212°F / >100°C (TCC)
FLAMMABLE LIMITS (LFL & UFL): Not established
EXTINGUISHING MEDIA: Carbon dioxide (CO2), or dry chemical.
HAZARDOUS COMBUSTION PRODUCTS: None known.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective gear. Do not use a direct stream of water.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Dike area to contain run-off and prevent contamination of water supplies. Product may produce a floating fire.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear appropriate personal protective equipment (refer to Section 8) when responding to spills. Shut off source of leak if safe to do so. Dike and contain spill. Soak up residue with absorbent such as clay, sand or other suitable material and dispose of properly. Flush area with water to remove trace residue. Contain runoff from residue flush and dispose of properly. Place in container for proper disposal. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Wear impervious gloves when handling. Shake well before using. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Keep away from children, feed and foodstuffs, fertilizers and seed.
STORAGE: Store in a cool, dry place. Store in original container. Keep from freezing. Keep tightly closed. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Work in well-ventilated area. Local ventilation may be required if working in confined spaces.
RESPIRATORY PROTECTION: Wear a NIOSH approved respirator for pesticides if necessary.
EYE PROTECTION: Chemical goggles or shielded safety glasses.
SKIN PROTECTION: Wear long sleeved shirt, long pants, and shoes with socks. Wear impervious rubber or chemical-resistant gloves.

MATERIAL SAFETY DATA SHEET

FIGHTER F-10™

For product OSHA PEL 8 hr TWA ACGIH TLV-TWA
not established not established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White liquid with mild odor
SPECIFIC GRAVITY (Water = 1): 1.00 g/ml
VAPOR PRESSURE: Not established
PERCENT VOLATILE (by volume): Not established
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: 8.34 lbs/gal.
BOILING POINT: Not established
EVAPORATION RATE: Not established

SOLUBILITY: Emulsifies
pH: 6.9 (1% solution)

10. STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: Inorganic acids and inorganic bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide from burning.
HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Cold temperatures.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): >5000 mg/kg [EPA Category IV]
Eye Irritation (rabbit): Not an irritant [EPA Category IV]
Inhalation LC₅₀ (rat): Not established
Carcinogenic Potential: None listed by OSHA, NTP, IARC, and ACGIH as a carcinogen

Acute Dermal LD₅₀ (rat): >2000 mg/kg [EPA Category IV]
Skin Irritation (rabbit): Moderate skin irritant [EPA Category III]
Skin Sensitization (guinea pig): Not a sensitizer

12. ECOLOGICAL INFORMATION

Aquatic Acute Toxicity
Rainbow Trout - 96 HR LC₅₀: 17.6 mg/L NOEC: 12.5 mg/L
Daphnia Magna - 48 HR EC₅₀: 9.3 mg/L NOEC: 7.5 mg/L

13. DISPOSAL CONSIDERATIONS

Do not reuse empty containers. **Plastic:** Triple rinse (or equivalent), adding rinse water to spray tank. Then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Wastes may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food, or feed by storage and disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT.
Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; 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
	0 Health	0 Least	0 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 N Fire N Sudden Release of Pressure N
Delayed N Reactive N

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

16. OTHER INFORMATION

MSDS STATUS: Format modified to address changes in ANSI Standard Z400.1-2004

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

Fighter F-10 is a trademark of Loveland Products, Inc.

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct, Loveland Products, Inc., the manufacturer or the seller makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use.

The product covered by this information sheet is furnished "as is" by Loveland Products, Inc., the manufacturer or the seller, and is subject only to the warranties, if any, that appear on the product's label or are otherwise expressly provided herein.

Except as expressly provided on the product's label or otherwise provided herein, no warranties, guarantees, or representations of any kind, either express or implied, or by usage of trade, statutory or otherwise, are made by Loveland Products, Inc., the manufacturer or the seller with regard to the product or use of the product, including, but not limited to, merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage.

Except as expressly stated herein, Loveland Products, Inc., the manufacturer or the seller makes no warranty of results to be obtained by use of the product covered by this information. Buyer's or user's exclusive remedy, and the total liability of Loveland Products, Inc., the manufacturer or the seller, shall be limited to damages not exceeding the cost of the product. No agent or employee of Loveland Products, Inc., the manufacturer or the seller is authorized to amend the terms of this warranty disclaimer or the product's label or to make a representation or recommendation different from or inconsistent with the label of this product.

IN NO EVENT SHALL LOVELAND PRODUCTS, INC., THE MANUFACTURER OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES AND THE BUYER AND USER WAIVE ANY RIGHT THEY MAY HAVE TO SUCH DAMAGES.