

MATERIAL SAFETY DATA SHEET

VALID®

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: VALID®
CHEMICAL NAME: Proprietary blend of Lecithin, emulsifiers, glycols, and defoamer
CHEMICAL FAMILY: Drift Control Agent - Adjuvant
EPA REG. NO.: not applicable
MSDS Number: .159557-08-LPI MSDS Revisions: All sections reviewed Date of Issue: 08/03/08 Supersedes: 08/03/05

2. HAZARDS IDENTIFICATION SUMMARY

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Lecithin and Other Proprietary Ingredients	100.00	8002-43-5	none established

3. COMPOSITION, INFORMATION ON INGREDIENTS

KEEP OUT OF REACH OF CHILDREN – CAUTION - Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wear chemical resistant gloves.

This product is a brown-colored liquid with mild-bland odor. Primary routes of entry are inhalation, eye contact and skin contact.

4. FIRST AID MEASURES

If in eyes: Flush eyes with water for 15 minutes, and then get medical attention.
If on skin: Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation persists. Wash clothing before reuse.
If swallowed: Call a physician immediately. Drink 2 glasses of water. Induce vomiting.
If inhaled: Remove person to fresh air. Give artificial respiration if necessary.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): >212°F / >100°C (T.C.C.)
FLAMMABLE LIMITS (LFL & UFL): Not established
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide (CO₂), foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon and oxides of sulfur.
SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing vapors and contact with liquid. Collect as much liquid as possible in a clean container for reuse or absorb and sweep up immediately and transfer to suitable containers for disposal. Flush spill area with water after clean up. 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: Use with adequate ventilation. See section 8 for PPE recommendations.
STORAGE: Store in a cool, dry place. Store in original container. Keep tightly closed. Product will become thicker at cold temperatures. Warm product before use. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Work in well-ventilated area, local exhaust may be required if working in confined space.
RESPIRATORY PROTECTION: Not normally required, if vapors or dusts exceed acceptable levels, wear a NIOSH/ MSHA approved pesticide respirator.
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.

For product	OSHA PEL 8 hr TWA None established	ACGIH TLV-TWA None established
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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Brown-colored liquid with mild-bland odor	SOLUBILITY: Miscible
SPECIFIC GRAVITY (Water = 1): 0.995 g/ml	pH: 6.8 (1% solution)
VAPOR PRESSURE: Not established	BULK DENSITY: 8.30 lbs/gal.
PERCENT VOLATILE (by volume): Not established	BOILING POINT: Not established
Note: These physical data are typical values based on material tested but may vary from sample to sample.	EVAPORATION RATE: Not established
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.	

10. STABILITY AND REACTIVITY

STABILITY: Stable	CONDITIONS TO AVOID: None known.
INCOMPATIBILITY: None known.	
HAZARDOUS DECOMPOSITION PRODUCTS: None known.	
HAZARDOUS POLYMERIZATION: Will not occur.	

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): > 5000 mg/kg	Acute Dermal LD₅₀ (rabbit): > 5000 mg/kg
Eye Irritation (rabbit): Causes mild redness and swelling	Skin Irritation (rabbit): Skin redness and swelling may occur
Inhalation LC₅₀ (rat): Not established	Skin Sensitization (guinea pig): Not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH	

12. ECOLOGICAL INFORMATION

Aquatic Acute Toxicity: LC₅₀ – Rainbow Trout > 10 mg/L.
Material is completely soluble in water.

13. DISPOSAL CONSIDERATIONS

Do not reuse product containers. Plastic Jugs: 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 puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT
U.S. Surface 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
	1 Health	0 Least	1 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 <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: Ethylene Oxide (CAS: 75-21-8) 10 pounds (product contains < 1 ppm)

SARA, Title III, Section 313: Ethylene Oxide (CAS: 75-21-8) < 1 ppm

RCRA Waste Code: Not listed

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

16. OTHER INFORMATION

MSDS STATUS: All sections reviewed and/or revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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