

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273 or CHEMTREC 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED FOR:

LOVELAND PRODUCTS CANADA, INC.
789 Donnybrook Drive • Dorchester, Ontario N0L 1G5

24-Hour Emergency Phone: 1-800-561-8273
Additional Emergency Phone (Canutec): 1-613-996-6666 (Collect)

CHEMICAL IDENTITY: Alcohol-Surfactant Mixture

PRODUCT USE: Foam Marker

PCP REG. NO.: not applicable

MSDS Number: 8210182-12-LPI

MSDS Revisions: Sections 1, 4

Date of Issue: 09/14/12

Supersedes: 06/01/10

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION - Liquid can cause eye and skin irritation.

This product is a pale yellow liquid with alcohol odour. Primary routes of entry are eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
N-Butanol	14.00	71-36-3	300 mg/m ³
Fatty Alcohol, C ₁₀₋₁₆	5.01	67762-41-8	not listed
Inert Ingredients, including:	80.99		
Isopropanol	<4.00	67-63-0	980 mg/m ³
Ethyl Alcohol	<4.00	64-17-5	1900 mg/m ³

4. FIRST AID MEASURES

- If in eyes:** Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
- If on skin or clothing:** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
- If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control centre or doctor. Do not give **any** liquid to the person. 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 centre or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273. Take container, label or product name and Pest Control Product Registration number with you when seeking medical attention.

5. FIRE FIGHTING MEASURES

- FLASH POINT (°F/Test Method):** 108°F / 42.2°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.
- 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 known.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing vapours 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.

STORAGE: Store in a cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. 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 vapours 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.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
N-Butanol	300 mg/m ³	61 mg/m ³
Isopropanol	980 mg/m ³	492 mg/m ³
Ethyl Alcohol	1900 mg/m ³	1880 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR: Pale yellow liquid with alcohol odour
SPECIFIC GRAVITY (Water = 1): 0.98 g/ml
VAPOUR PRESSURE: Not established
PERCENT VOLATILE (by volume): 70%
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.

SOLUBILITY: Soluble
pH: 7.0 (1% solution)

BULK DENSITY: 0.98 kg/L
BOILING POINT: Not established
EVAPORATION RATE: Not established

10. STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: High temperatures.
INCOMPATIBILITY: Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide may be released when subjected to high temperatures and combustion.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): not established
Eye Irritation (rabbit): Can cause eye irritation
Inhalation LC₅₀ (rat): not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

Acute Dermal LD₅₀ (rabbit): not established
Skin Irritation (rabbit): Can cause irritation
Skin Sensitization (guinea pig): not established

12. ECOLOGICAL INFORMATION

Material is completely soluble in water.
 Material is harmful to fish and other aquatic life.

13. DISPOSAL CONSIDERATIONS

Do not reuse containers for any purpose. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

TDG/DOT Shipping Description: NOT REGULATED IN CONTAINERS LESS THAN 450.46 LITERS
TDG/DOT Shipping Description: CONTAINERS GREATER THAN 450.46 LITERS: FLAMMABLE LIQUIDS, N.O.S. (BUTANOL), 3, UN1993, III (FLASHPOINT 43.9°C) ERG GUIDE 128
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	
	2 Flammability	1 Slight	2 Flammability	
	0 Instability	2 Moderate	0 Reactivity	
		3 High	B PPE	
		4 Severe		
SARA Hazard Notification/Reporting				
SARA Title III Hazard Category:	Immediate <u>Y</u>	Fire <u>Y</u>	Sudden Release of Pressure <u>N</u>	
	Delayed <u>N</u>	Reactive <u>N</u>		

Reportable Quantity (RQ) under U.S. CERCLA: N-Butanol (CAS No. 71-36-3): 5000 pounds
SARA, Title III, Section 313: N-Butanol (CAS No. 71-36-3)
RCRA Waste Code: Not listed
CA Proposition 65: None applicable

16. OTHER INFORMATION

MSDS STATUS: Sections 1 and 4 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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