



MATERIAL SAFETY DATA SHEET

320 37th Avenue, St. Charles, Illinois 60174
 www.unitedlabsinc.com . www.unitedlabsinc.ca

To Reorder Call:
 800-323-2594

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
 UNITED 104 ICE & FROST MELTER

USE/DESCRIPTION
 Ice and Frost Melter

FOR MEDICAL AND TRANSPORTATION EMERGENCIES
 24 Hour INFOTRAC (US and CANADA): **800-535-5053**
 REVISION DATE
 November 08, 2011

HMIS III HEALTH (0 = Maximum Safety) *1

Always follow Label Directions and Cautions.

* Chronic	2 Moderate
4 Severe	1 Slight
3 Serious	0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

PHYSICAL HAZARD (0 = Maximum Safety) 0

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire. 3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.	2 Violent chemical change possible-use hose stream from distance 1 Unstable if heated-use precaution. 0 Normally stable.
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FLAMMABILITY (0 = Maximum Safety) 3

Susceptibility of Material to Burning.

4 Extremely flammable.	1 Must be preheated
3 Ignites at normal temperature	to burn.
2 Ignites when moderately heated.	0 Will not burn.

PERSONAL PROTECTION: p & n

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (STEL)	ACGIH (PEL-TWA)	OSHA (STEL)	OSHA (PEL-TWA)
Methanol	67-56-1	60-70	250 ppm	200 ppm	NE	200 ppm
Isopropyl alcohol	67-63-0	8-10	400 ppm	200 ppm	NE	400 ppm
Ethylene glycol	107-21-1	3-5	NE	NE	NE	NE
Propane	74-98-6	3-5	NE	1000 ppm	NE	1000 ppm
Carbon Dioxide Propellant	124-38-9	3-5	30000 ppm	5000 ppm	NE	5000 ppm

3. HAZARDS IDENTIFICATION

Eyes: May cause irritation or burn eyes. Prolonged exposure may result in corneal injury.
Skin: May cause irritation. Prolonged or repeated contact can result in defatting and drying of the skin.
Inhalation: In a confined area, vapors in high concentrations are anesthetic. Intentional misuse by inhaling the product can be harmful or fatal.
Ingestion: Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea. May cause delayed lung damage.
Chronic effects: Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.

4. FIRST AID MEASURES

Eyes: Immediately flush with plenty of water for at least 15 minutes, while holding eyelids open. If irritation persists get medical attention immediately.
Skin: Remove contaminated clothing. Flush with water followed by soap and water. If irritation develops or persists, seek medical attention.
Inhalation: Remove to fresh air immediately. Seek medical attention immediately. If breathing stops give artificial respiration.
Ingestion: Have victim rinse mouth thoroughly with water. DO NOT induce vomiting. Seek medical attention immediately. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): -156°F/ -104.4°C Propellant **Explosive Limits:** Lower (LEL): ND Upper (UEL): ND
Flame Projection (Aerosol): Flammable per 16 CFR 1500.3 and 1500.45.
Hazardous Products of Combustion: When strongly heated, as in a fire, may produce oxides of carbon and oxides of nitrogen.
Fire and Explosion Hazards: Do not breathe fumes in the event of fire and/or explosion. Exposure to temperature above 130°F/ 54.4°C may cause container to burst, rupture, or vent. Containers should be cooled with water to prevent vapor pressure build up.
Extinguishing Media: Water, Water spray, Water fog, Dry chemical, Carbon dioxide.
Fire Fighting Instructions: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Large Spills: Ventilate area and remove all sources of ignition. Cover with absorbent material and place in a disposal container. Clean contaminated surface thoroughly with water.

7. HANDLING AND STORAGE

Store in a cool, dry place away from heat, sparks or open flame. Do not store at temperatures above 54.4°C/ 130°F. Keep out of sunlight. Contents under pressure. Do not puncture, incinerate or crush. For Industrial and Institutional use only. NFPA Code 30B Rating: Level 1 Aerosol.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Chemical safety goggles are recommended.

Skin: Chemical resistant gloves are recommended.

Respiratory: None needed for proper use in accordance with label directions. If recommended exposure limits are exceeded wear a NIOSH approved respirator.

Engineering Controls: Insure adequate ventilation, especially in confined areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 168.8°F/ 76°C **Specific Gravity:** 0.8369 (H₂O=1) **Vapor Pressure:** 95-105 psig@70°F **Melting Point:** ND
Vapor Density: ND **Evaporation Rate:** ND **Solubility in Water:** Partial **pH:** 9.5 – 10.5
Appearance and Odor: Aerosol, clear liquid with alcohol odor.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: No hazardous decomposition products are known.

Chemical Stability: Stable

Incompatibility: Oxidizing agents, heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None

California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

Ecotoxicity: Components of this product have been identified as having potential environmental concerns. LC50 18645 mg/L estimated, Fish, 96.00 Hours, IC50 10061 mg/L estimated, Algae, 72.00 Hours,

13. DISPOSAL CONSIDERATIONS

Consult your local, state and federal regulations for proper disposal guidelines. Do not puncture or incinerate containers. Disposal regulations may be different for each state and/or locality.

Waste codes: D001: Waste Flammable material with a flash point <140F/60C

14. TRANSPORT INFORMATION

DOT: Consumer commodity, ORM-D

TDG: Available upon request

UN: Available upon request

15. REGULATORY INFORMATION

VOC (Volatile Organic Compounds): 76.20 %

TSCA (Toxic Substances Control Act): Listed

SARA Title III Section 302 EHS: No

SARA Title III Section 311/312: Immediate Hazard - Yes, Delayed Hazard - Yes, Fire Hazard - Yes, Pressure Hazard - Yes, Physical Hazard - No

SARA Title III Section 313 Toxic Chemicals: Methanol CAS# 67-56-1 (0.591)*, Ethylene glycol CAS# 107-21-1 (0.04)*,

* Pounds of reportable material per can of UNITED product.

WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.