

Material Safety Data Sheet



8400 Green Meadows Dr.
P.O. Box 545
Lewis Center, Ohio 43035-0545 U.S.A.

LIQUID ICE™

Identity (Trade Name As Used On Label)

24 HOUR EMERGENCY PHONE NUMBER
CHEMTREC North America 800 – 424 – 9300
Outside of North America 703-527-3887 (collect)

P/N :

DOCUMENT P/N :

NON-EMERGENCY PHONE NUMBER
(740) 548-4100
8:00 A.M. – 5:00 P.M.

DATE PREPARED: 11/8/99 By: A. Hier
DATE REVIEWED: 11/00, 3/02, 7/04

EMERGENCY HAZARD RATING

HEALTH: 1

FIRE: 1

REACTIVITY: 0

SPECIFIC HAZARD: Special

CHEMICAL NAME	COMMON NAME	REG.* (Y/N)	CAS #	OSHA PEL	ACGIH TLV	CARCI-NOGEN**
Ethanol, 2, 2', 2'' Nitrilotris		Y	102 - 71 - 6		5mg/m3 TWA	> 0.1% N
Formaldehyde		Y	50 - 00 - 0	0.75 ppm	© = 0.3 ppm	> 0.1% N
Distillates, Petroleum, Hydrotreated Heavy Paraffinic		Y	64742 - 54 - 7		5mg/M3 TWA	> 0.1% N
Diethanolamine			111 - 42 - 2		3 ppm	> 0.1% N

SECTION II: PHYSICAL AND CHEMICAL DATA

BOILING POINT: 212	MELTING POINT: unknown	SPECIFIC GRAVITY: (water = 1) heavier
VAPOR PRESSURE: N/A	% VOLATILE BY VOL: 60 - 80 %	VAPOR DENSITY: N/D
EVAPORATION RATE: (n-butyl Acetate=1: 1	SOLUBILITY IN WATER: Complete	SOLUBILITY IN ALCOHOL: N/A
SOLUBILITY IN OTHER SOLVENT: N/A	APPEARANCE AND ODOR: Green liquid, mild odor	

SECTION III: CORROSIVITY AND REACTIVITY DATA

STABILITY: <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	POLYMERIZATION: <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR
INCOMPATIBILITY (MATERIALS TO AVOID): Strong Oxidants	
DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen	
CONDITIONS TO BE AVOIDED: Do not mix with nitrites, Keep containers closed when not in use.	

SECTION IV Part I: HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY:	EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION
INHALATION: Mists	May cause respiratory tract irritation. Avoid breathing mists in accordance with good safety and industrial hygiene practices.	If respiratory discomfort or irritation occurs, move the person to fresh air. If irritation persists, seek medical attention.

SECTION IV Part II: HEALTH, FIRST AID AND MEDICAL DATA

INGESTION:	May cause gastrointestinal irritation. Do not ingest	If swallowed, call a physician immediately. Only induce vomiting by instruction of a physician. Never give anything by mouth to an unconscious person .
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SKIN:	May cause skin irritation. Avoid contact.	In case of contact, flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.
EYE:	May cause eye irritation. Avoid contact.	Immediately flush eyes with plenty of water for a minimum of 15 minutes. If irritation persists, seek medical attention.
OTHER POTENTIAL HEALTH RISKS:	Prolonged or repeated contact with petroleum oil may remove natural oils and fats from the skin.	

SECTION V: SPECIAL PRECAUTIONS IN HANDLING/STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed when not in use. Bring product to room temperature before use. Do not mix with nitrites. Impervious gloves such as rubber should be used when handling this product.
OTHER PRECAUTIONS: Do not mix with nitrites.

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None **METHOD USED:** N/A **FLAMMABLE LIMITS:** **LEL:** N/A **UEL:** N/A
EXTINGUISHING MEDIA: carbon dioxide, dry chemical, foam.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus when fire fighting in a confined space.
EXPLOSION POTENTIAL: N/A

SECTION VII: SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Flush residual spill with water. For large spills, dike for later disposal.
WASTE DISPOSAL METHOD: Assure compliance with applicable federal, state and local regulations.

Section VIII: REGULATORY INFORMATION

U.S. Federal Regulations: Hazardous per OSHA 29 CFR 1910.1200: yes
 Contains: FORMALDEHYDE
 Section 311/312 Hazard Class (es) : Immediate: YES Delayed: NO Fire: NO Reactivity: NO Sudden Release of Pressure: NO
 Section 313 Supplier Notification
 This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

CAS Registry Number	Chemical Name	Percent by Weight
50-00-0	Formaldehyde	0.1 – 1%

Other U.S. Federal Regulations: This product is a mixture and is NOT listed in the TSCA Inventory. The individual ingredients in the product are listed in the TSCA Inventory.

Section IX: OTHER INFORMATION

Alkanolamine: This product contains an alkanolamine. In all metalworking fluids containing amines, there is a potential for forming nitrosamines which are animal carcinogens. Therefore, no nitrites or related nitrosating agents should be added to such compositions.
 Petroleum Oil: STEL = 10 mg/M3. Using terminology of the International Agency for Research on Cancer (IARC), the petroleum distillates listed in Section II are classified by the supplier as severely processed. Not all those listed in section II may be present. The supplier has stated that these distillates do not require a carcinogen label as defined by OSHA 29 CFR 1910.1200.
 No component known to be present in this product at >0.1 % is presently listed as a carcinogen by IARC, NTP, or OSHA.
 Formaldehyde: This product's preservative is contaminated with low levels of formaldehyde that may be released during use. Along with normal indoor background levels of formaldehyde, such release may cause irritation to eyes, nose, throat and lungs. TLV = 0.3 ppm. ACGIH: suspected human carcinogen. EPA: Group B1 carcinogen. IARC: Group A2 carcinogen. OSHA CFR 1910.1048 requires initial monitoring of exposure levels and routine monitoring if exposure levels exceed OSHA's action level of 0.5 ppm formaldehyde.
 California Proposition 65: **WARNING !** This product contains trace amounts of formaldehyde which the State of California has found to cause cancer, or birth defects or other reproductive harm.

The information contained herein is based on data considered accurate . However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.