

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KOINSOLV
ORIGINAL DATE: January 3, 2000

REVISED DATE: May 24, 2006
DATE PRINTED: September 12, 2006

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: KOINSOLV

MANUFACTURER: AMITY INTERNATIONAL
1704 Denver Road
Anderson, SC 29623

DISTRIBUTOR: E&T KOINTAINER CO.
PO Box 103
Sidney, OH 45365

INFORMATION TELEPHONE: 937-394-4812

24-Hr Emergency Phone:
Chemtrec 800-424-9300

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	(Mfrs TWA) OSHA PEL	ACGIH TLV	WT. %
n-Propyl bromide	106-94-5	100 ppm	Not est.	>93
1-Propanol	71-23-8	400 ppm	200 ppm	<3
1,2 Epoxybutane	106-88-7	400 ppm	Not est.	< 1
Oxygenated hydrocarbons		Not est.	Not est.	< 3

SECTION 3 - HAZARDS IDENTIFICATION

Symptoms/Effects of Overexposure

EYES: Causes mild eye irritation.

SKIN: Prolonged contact will cause skin irritation.

INHALATION: Breathing of mist may irritate the nose, throat and lungs. Exposure to high doses may cause central nervous system depression (anesthetic-like effects). Doses which cause anesthetic-like effects may also cause adverse effects in liver, lung and kidney.

INGESTION: Low order of toxicity. May cause mild nausea and abdominal discomfort.

CARCINOGENICITY: This product has not been determined to be a carcinogen by OSHA, ACGIH or NTP.

NFPA Rating: Health: 2 Fire: 0 Reactivity: 0

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SECTION 4 - FIRST AID MEASURES

EYES: Immediately flush eyes with water for 15 minutes. Get medical attention if irritation develops.

SKIN: Wash skin with soap and water. Remove contaminated clothing and launder before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

INGESTION: DO NOT INDUCE VOMITING. Seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT (METHOD): None LEL: 4.0% UEL: 7.8%

EXTINGUISHING MEDIA: Dry chemical, chemical foam, carbon dioxide. Class BC, ABC Fire extinguisher

FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus with a full face-piece operated in the positive pressure mode and full body protection when fighting fires.

FIRE AND EXPLOSION HAZARDS: Under fire conditions, toxic and corrosive gases may be released.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in chemical container. Clean up residue with an appropriate organic solvent. For large spills, dilute for later disposal.

SECTION 7 - HANDLING AND STORAGE

Store in original container, preferably in a cool ventilated, fire-resistant building. Avoid overheating or freezing. Avoid open flames and sparks. Since empty containers may retain product residues (vapor, liquid or solid) all label precautions must be observed.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: Use NIOSH/MSHA approved respirator if ventilation is not sufficient and if mists are generated.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION continued

Ventilation: If desirable to reduce odor, local exhaust can also be effective in minimizing odor. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

Clothing/Glove: Chemically resistant gloves should be used with all chemicals.

Eye Protection: Safety glasses are recommended. Provide eye bath near work site.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear colorless liquid with strong characteristic odor.

BOILING POINT: 156°F

SPECIFIC GRAVITY (H₂O=1): 1.25 @ 77°F

VAPOR DENSITY (AIR=1): >1

VAPOR PRESSURE (mmHg): >100 mm Hg

% VOLATILE (By Weight): 100

SOLUBILITY IN WATER: Negligible

EVAPORATION RATE (BUAC=1): <1

SECTION 10 - STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS: Strong mineral acids and strong oxidizing agents. Prolonged contact with aluminum, magnesium and zinc metals should be avoided.

CONDITIONS TO AVOID: Storage temperatures above the boiling point (150°F). Operating temperatures above 185°F and decomposition temperatures above 400°F.

HAZARDOUS DECOMPOSITION: Thermal decomposition produces carbon monoxide, carbon dioxide, and hydrogen halides.

SECTION 11 - TOXICOLOGICAL INFORMATION

The following information is the result of testing the product and individual components:

LD50 (rats oral): 4260 mg/kg;

LC50 (rats inhalation): 253,000 mg/m³/0.5hr

1,2 epoxybutane

LD50/oral/rat = 4,260 mg/kg

LC50/rat = 253,000 mg/m³/0.5 hour

n-Propyl bromide

LD50/oral/rat = 500 mg/kg

LD50/dermal/rabbit = 2,100 ul/kg

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SECTION 12 - ECOLOGICAL INFORMATION

No specific ecological data is known or reported for this product or its components.

SECTION 13 - DISPOSAL CONSIDERATIONS

If this product becomes a waste it is the user's responsibility to dispose of the material in accordance with local, state and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT (Department of Transportation): This product is not regulated as a DOT hazardous material.

SECTION 15 - REGULATORY INFORMATION

Although this product contains 1,2 epoxybutane it is below the concentration subject to the reporting requirements of SARA Title III, Section 313.

None of the components of this product are listed in California's Safe Drinking Water and Toxic Enforcement Act of 1986 – Proposition 65 as a chemical known to cause cancer, birth defects or other reproductive harm

All the components of this product are listed on the TSCA inventory.

SECTION 16 - OTHER INFORMATION

This product information contained herein is believed to be accurate as of the date of the Material Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage, or disposal of the product, including any resultant personal injury or property damage.

REVISION DATE: May 24, 2006
PREPARER: T. Rielage