

MATERIAL SAFETY DATA SHEET

Product Name: LT-224

Product Code: LT224

Chemical Type: Solvent Blend

Product Use: Clean-up and dilution of solvent based paint and ink.

WARNING! FLAMMABLE LIQUID AND VAPOR

Section 1: Manufacturer Information

Manufacturer: Chemical Solvents Inc.
Address: 3751 Jennings Rd.
Cleveland, Ohio 44109

Revision Date: 06/21/2004
Emergency: Chemtrec (800) 424-9300
Phone: (800) 362-0693

Section 2: Hazardous Ingredients

Hazardous Ingredients	CAS #	Percent	Exposure Limits
*Toluene	108-88-3	35-55%	OSHA (TWA)- 100 ppm ACGIH (TLV)- 100 ppm
Acetone	67-64-1	10-25%	OSHA (TWA)- 750 ppm ACGIH (TLV)- 750 ppm
*Xylene	1330-20-7	10-25%	OSHA (TWA)- 100 ppm ACGIH (TLV)- 100 ppm
Isopropanol	67-63-0	0-10%	OSHA (TWA)- 400 ppm ACGIH (TWA)- 400 ppm
*Ethyl Benzene	100-41-4	0-10%	OSHA (TWA)- 100 ppm ACGIH (TLV)- 100 ppm
*2-Butoxy Ethanol	111-76-2	0-10%	OSHA (PEL)- 25 ppm Skin ACGIH (TLV)- 25 ppm Skin
*Methanol	67-56-1	0-10%	OSHA (TWA)- 200 ppm ACGIH (TWA)- 200 ppm

*Denotes chemical is subject to the reporting requirements of SECTION 313 of Title III of the 1986 Super fund Amendments and Reauthorization Act (SARA) and 40 CFR PART 372.

Section 3: Physical & Chemical Properties

Boiling Point: 180 F
Vapor Density: >1 (Air=1)
Odor/Appearance: Clear liquid
Total VOC: 7.08 #/Gal.
VOC – Exempt: 5.66 #/Gal.

Specific Gravity: 0.85
Water Solubility: Nil
Evaporation Rate: >1 (NBA=1)

Section 4: Fire & Explosion Data

Flash Point: 10 F (TCC)

Extinguishing Media:

Dry chemical, carbon dioxide, halon, or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials and carbon dioxide will displace oxygen, take proper precautions when using these materials.

Unusual Fire & Explosion Hazards:

This material may be ignited by heat, sparks, flames or other ignition sources (static electricity). Vapors are heavier than air and will collect in low areas (sewers) or travel considerable distances. If containers are not cooled in a fire, they may explode and ignite.

Special Fire Fighting Procedures:

Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

Section 5: Physical Hazards

Stability: Stable

Conditions to Avoid: Heat, spark, and open flame

Incompatibility: Strong Oxidizing Agents

Hazardous Decomposition: Combustion will produce Carbon Monoxide, Carbon Dioxide and nitrogen-oxygen compounds.

Hazardous Polymerization: Will not occur

Section 6: Potential health Effects

Eye Contact:

May cause immediate or delayed irritation. Irritation may show up as redness and/or swelling. May cause corneal damage.

Skin Contact:

Repeated or prolonged contact with skin may produce redness, irritation and/or dryness. May cause or aggravate dermatitis or other existing skin condition.

Inhalation:

Inhalation of vapors or spray mist may cause nausea, headaches, and/or nose and throat irritation.

Ingestion:

Ingestion may cause irritation to the mouth, esophagus, and/or stomach.

Signs or Overexposure:

Irritation of eyes, nose, throat, digestive tract. Diarrhea, vomiting, nausea and /or nervous system depression.

Pre-existing Conditions Aggravated:

Skin and respiratory disorders. Alcoholism, kidney, liver, heart and nervous system disorders.

Toxicological Information:

Glycol Ether EB

Inhalation. LC50: 500 ppm – rats – 4 hrs.
Oral LD50: 2.4 g/kg – rats 320 mg/kg - rabbit
Dermal LD50: 400 mg/kg - rabbit

Glycol Ether EB major effect in acute and subchronic animal studies was intravascular red cell hemolysis. Secondary effects were spleen and liver enlargement and nephropathy. These studies have not been shown relevant to humans. Effects on embryo/fetus were only evident in the presence of maternal toxicity. NTP reported testicular weight changes in rats and mice ingesting 6000 ppm on a 13 week drinking water study.

Methanol

Inhalation. LC50: 64000 mg/kg – rats – 4 hrs.
Oral LD50: 5628 mg/kg – rats
Skin absorption LD50:
Draize skin test: 20mg/24 hrs-moderate
Draize eye test: 100 mg/24hr.-moderate

Ingestion of 15 ml of methanol can cause blindness and 30-250 ml can be fatal producing severe metabolic acidosis, blindness and death. The range of toxicity is variable.

Xylene

Inhalation. LC50: 26,800 ppm – rats – 1 hrs.
Oral LD50: 4.3 g/kg – rats
Dermal LD50: 2000 mg/kg - rabbit

In rats, prolonged breathing of 500 ppm – fetal effects but no birth defects; no effects at 400 ppm. High oral doses toxic to pregnant mice; cleft palate in fetuses.

Acetone

Inhalation. LC50: >50000 mg/m³ – rats – 8 hrs.
Oral LD50: 5.8 g/kg – rats
Skin absorption LD50: 20000 mg/kg – rabbits

Toluene

Toluene contains small amounts of benzene a known carcinogen which may produce blood changes which include reduced platelets, reduced red blood cells, reduced white blood cells, aplastic anemia, and acute nonlymphocytic anemia.

Toluene contains small amounts of Ethylbenzene and Xylene, both have been related to fetotoxicity, liver and kidney injury. Exposure of pregnant rats during gestation to toluene at levels of 250 ppm or higher has produced some maternal toxicity and embryo/fetotoxicity. A lifetime inhalation study in rats did not show any toxic effects even at a high dose of 300 ppm. Behavioral signs of hearing loss were observed in rats exposed to toluene subchronically at levels of 1000 ppm or more.

Section 7: First Aid Measures

Eye Contact:

Flush with warm water for 15 minutes. Seek medical attention.

Skin Contact:

Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.

Inhalation:

Remove exposed individual to fresh air, protecting yourself. Restore breathing if necessary.
Contact a physician.

Ingestion:

Immediately give the person two large glasses of water. Do not induce vomiting. Get medical attention immediately. **DO NOT GIVE AN UNCONCIOUS OR CONVULSING PERSON ANYTHING BY MOUTH!**

Section 8: Accidental Release Measures

In case of spill or release, avoid vapors and ignition sources. Use appropriate protective equipment. Stop and contain the discharge if it can be done safely. Keep out of drains and waterways. Handle with trained personnel only. Notify authorities as required by law.

Section 9: Exposure Controls and Personal Protection

Protective Equipment:

Use synthetic gloves if necessary to prevent excessive skin contact. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Other Suggested Equipment:

Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised:

Chemical Solvents Inc. takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

Section 10: Storage & Handling

Use in accordance with good work place practices. Avoid unnecessary contact and wash thoroughly after handling. Store in a cool, dry area, away from heat or direct sunlight. Keep containers closed when not in use. **FOR INDUSTRIAL USE ONLY.**
KEEP OUT OF REACH OF CHILDREN.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers.

Section 11: Disposal Considerations

Dispose of this material in accordance with all applicable local, state and federal regulations.

Section 12: Transportation

Paint Related Materials, 3, UN 1263, PGII
NAERG #: 128

Section 13: Other Information

HMIS RATING: **HEALTH 2** **FLAMMABILITY 3** **REACTIVITY 0**
RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

All the chemicals used in this product are TSCA listed.
Check with your local regulators to be sure all local regulations are met.

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