

Effects of Long-Term (Chronic) Exposure

Health studies have shown that many solvents pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids and vapors should be minimized.
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Prolonged or continuous inhalation of vapors may result in delayed lung damage.
Repeated inhalation of vapor in high concentration can change the blood pressure.
Repeated or prolonged inhalation of vapor may cause liver and kidney damage.

4 FIRST AID MEASURES

Skin

Wash area thoroughly with soap and water and rinse. Do not use solvents or thinners.

Eye

Remove contact lenses, keep eyelids open. Flush with plenty of water (10-15 minutes). Call a physician.

Inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a physician.

Ingestion

Do not induce vomiting. Call a physician. Keep at rest.

Medical Conditions Aggravated by Exposure

None known.

5 FIRE FIGHTING MEASURES

Extinguishing Media

Suitable: alcohol resistant foam, CO2, powders, water spray.
Not suitable: water jet

Basic Fire Fighting Procedures

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Use self contained breathing apparatus to avoid possible fumes.

Unusual Fire & Explosion Hazards

Water may be used to cool endangered containers. Do not allow the quenching water into the sewage system.

Flash Point 35 °C approx.

Flammability Limits in Air, Lower, % by Volume 0.6

Flammability Limits in Air, Upper, % by Volume 10

6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewer systems, inform appropriate authorities in accordance with local regulations.

Spill or Leak Procedure

Remove sources of ignition. Ventilate area. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.

7 HANDLING & STORAGE

Handling

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Preparation may change electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

Storage

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.

Always keep in containers of same material as the original one. Avoid heating and direct sunlight. See also instructions on the label.

Ventilation

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient in maintaining concentrations of particles and solvent vapor below the OEL, suitable respiratory protection must be worn.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Personal Protection Equipments (PPE)

Safety goggles.

Skin Protection: Personal Protection Equipments (PPE)

Protective gloves. After washing hands, replace lost skin fat by fat containing skin creams.

Personnel should wear anti static clothing made of natural fiber or of high-temperature-resistant synthetic fiber. All parts of the body should be washed after contact.

Respiratory Protection: Personal Protection Equipments (PPE)

If workplace limits are exceeded, a gas mask approved for this particular job must be worn.

General

This product is unlikely to harm health, given normal and proper handling and hygienic precautions. Prolonged inhalation of vapors in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes.

9 PHYSICAL & CHEMICAL PROPERTIES

Odor and Appearance

Clear liquid with odor of organic solvents

Boiling Point	119 - 170 °C
Specific Gravity	0.9 g/cm ³ , approx.
Melting Point	NI
Percent Volatile	50 %
Vapor Pressure	12 approx.
Evaporation Rate	NI
Vapor Density	> 1
Solubility In Water	no

10 STABILITY & REACTIVITY

Stability/Incompatibility

Stable under normal conditions of use.

Materials to Avoid: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous Reactions/Decomposition Products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

Hazardous Polymerization

none.

11 TOXICOLOGICAL INFORMATION

Routes of Exposure

Inhalation, ingestion, skin and eye contact.

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Disposal according to federal, state and local regulations.

14 TRANSPORT INFORMATION

Department of Transportation (DOT) Requirements:

General Transportation Information for Bulk Shipments

Proper Shipping Name Paint Related Material

UN/NA Code 1263

15 REGULATORY INFORMATION

NFPA Ratings

Health	Flammability	Reactivity	Special Hazards
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HMIS Ratings

Health 2	Flammability 3	Reactivity 1	Personal Prot. Equip. C
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16 OTHER INFORMATION

Disclaimer

The details in this material safety data sheet satisfy national legislation. However, we have no knowledge or control over the individual user's working conditions. The product may not be used for any purpose other than that specified in the product data sheet unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Completed On 11/17/2003 Replaces Sheet Dated 3/12/1998

Completed By TRANS TECH AMERICA, INC.