

TETRAHYDROFURAN (THF)

Synonyms: Diethylene Oxide, 1,4-Epoxybutane, Tetra Methylene Oxide, Oxacyclopentane.

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, alcohol-resistant foam, water in large amounts, carbon dioxide.
EXPLOSION	Vapor/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT GENERATION OF MISTS!	
•INHALATION	Cough. Dizziness. Headache. Nausea. Sore throat. Unconsciousness.	Ventilation, local exhaust,	Fresh air, rest. Refer for medical attention.
•SKIN	Dry skin. Redness. Pain.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
•EYES	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

Chemical Dangers: The substance can form explosive peroxides. Reacts violently with strong oxidants, strong bases and some metal halides, causing fire and explosion hazard. Attacks some forms of plastic rubber and coatings.

Physical Dangers: The vapor is heavier than air and may travel along the ground; distant ignition possible.

Storage: Incompatibilities and reactivities include strong oxidizers. THF is a peroxide forming chemical. Date upon receiving and opening. Discard after 3 months of opening and 1 year of receiving.

Handling, Containment Devices and PPE: Use in exhaust hood with nitrile chemical resistant gloves (if heavy exposure is anticipated contact Safety and Health for other glove options) and chemical goggles. If a splash hazard to the face is present, a face shield is also required.

Waste Disposal: Collect and store in a glass container labeled with the following "Hazardous Waste-Tetrahydrofuran." Call Safety and Health at x5069 on the Health Science Campus and x3600 on the Main Campus for pick up.

Emergency Spill Procedures and Decontamination: Call x77 on the Health Science Campus and x2600 for Campus Police on the Main Campus.