

ACETALDEHYDE

Synonyms: Acetic aldehyde, Ethanal, Ethyl aldehyde

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Extremely flammable.	NO open flames, NO sparks, and NO smoking. NO contact with hot surfaces.	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. Use non-sparking hand tools.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		AVOID ALL CONTACT!	
•INHALATION	Cough.	Ventilation or Local exhaust	Fresh air, rest. Refer for medical attention.
•SKIN	Redness. Pain.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
•EYES	Redness. Pain.	Safety goggles and eye protection	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Diarrhea. Dizziness. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

Chemical Dangers: The substance can form explosive peroxides in contact with air. The substance may polymerize under the influence of acid(s) and alkaline hydroxides in the presence of trace metals (iron) with fire or explosion hazard. The substance is a strong reducing agent and reacts violently with oxidants, strong acids halogens and amines causing fire and explosion hazard.

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

Storage: Incompatibilities and reactivities include strong oxidizers, acids, bases, alcohols, ammonia & amines, phenols, ketones, HCN, H₂S [Note: Prolonged contact with air may cause formation of peroxides that may explode and burst containers; easily undergoes polymerization.]

Handling, Containment Devices and PPE: Use in exhaust hood with latex 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-Acetaldehyde." Call Safety and Health at x5069 on the Health Science and x2600 on the Main Campus.

Emergency Spill Procedures and Decontamination: call x 77 on the Health Science Campus and x2600 on the Main Campus.