

Hydrogen Peroxide

Synonyms: High-strength hydrogen peroxide, Hydrogen dioxide, Hydrogen peroxide (aqueous), Hydroperoxide, Peroxide

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Not combustible. The substance may ignite combustible materials. Many reactions may cause fire or explosion.	NO contact with combustibles reducing agents NO contact with hot surfaces.	In case of fire in the surroundings: water in large amounts, water spray
EXPLOSION	Risk of fire and explosion on contact with heat or metal catalysts.		In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT GENERATION OF MISTS! AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
•INHALATION	Sore throat. Cough. Dizziness. Headache. Nausea. Shortness of breath.	Ventilation, local exhaust,	Fresh air, rest. Half-upright position. Refer for medical attention.
•SKIN	Corrosive. White spots. Redness. Skin burns. Pain.	Protective gloves. Protective clothing.	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
•EYES	Corrosive. Redness. Pain. Blurred vision. Severe deep burns.	Safety goggles, or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Sore throat. Abdominal pain. Abdominal distension. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

CHEMICAL DANGERS: The substance decomposes on warming or under influence of light producing oxygen, which increases fire hazard. The substance is a strong oxidant and reacts violently with combustible and reducing materials causing fire and explosion hazard particularly in the presence of metals. Attacks many organic substances, e.g., textile and paper.

PHYSICAL DANGERS: N/A

Storage: Separated from combustible and reducing substances, food and feedstuffs strong bases, metals cool. Keep in the dark. Store in vented containers. Store only if stabilized.

Handling, Containment Devices and PPE: Use in an 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 – Hydrogen Peroxide." 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 2600 for Campus Police on the Main Campus.