

MATERIAL SAFETY DATA SHEET

Revision #: 02

Section 1 - Product Identification & Use

Product Name: **Hydrogen Peroxide 35%**
Synonyms: Hydrogen dioxide, hydroperoxide.
WHMIS: C, E, F
TDG Classification: Hydrogen peroxide, aqueous solutions
Class 5.1, UN 2014, II
Supplier: Advance Chemicals Ltd.
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Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD ₅₀ & LC ₅₀
hydrogen peroxide	15-40	7722-84-1	4060 mg/kg (dermal, rat)

Section 3 - Physical Data

Physical state: liquid Boiling point: 106°C
Specific Gravity: 1.112 pH: 3.3 (1% solution)
Freezing point: no data Solubility in water: soluble
Evaporation rate: no data Vapour pressure: no data
Odour & Appearance: Clear, colourless liquid with no odour.

Section 4 - Fire or Explosion Hazard

Flammability: The product is not considered to be flammable.
Extinguishing media: Flood with water.
Hazardous Combustion/Decomposition Products: Oxygen, heat and steam.
Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus when either in confined areas or exposed to combustion products. Full protective clothing is required.
Unusual Fire or Explosion Hazards: Hydrogen peroxide is a strong oxidizer which may cause ignition of combustible or oxidizable products. May decompose violently on contact with metals, or their salts, dusts or contaminants.

Section 5 - Reactivity Data

Stability: Stable. High heat may cause decomposition. Decomposition increases with decreased concentration.
Incompatible substances: Combustible materials, organic materials, metals and alkalis. Attacks some types of rubber, plastics and coatings.
Polymerization: Will not occur.
Hazardous decomposition products: Oxygen, heat and steam.

Section 6 - Toxicological Properties

Inhalation: May produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
Skin contact: Severe irritation. May produce burns.
Eye contact: Severe irritation. Causes corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur.
Ingestion: Severe irritation. Causes burns in mouth, throat and abdomen.

Section 7 - Preventative Measures

Personal Protective Equipment: Avoid contact with skin and eyes. Wear chemical protective gloves and goggles.
Respiratory protection: None necessary under normal use conditions.
Action to take for spills & leaks: Wear chemical protective clothing. Small spills should be wiped up and disposed of in government approved waste containers. The spill area may then be flushed with large quantities of water. Larger spills should be contained by diking with sand, soil, or other non-combustible material, then transferred to approved waste removal containers for proper disposal. If necessary, neutralize with a dilute solution of sodium carbonate. Do not allow spilled, or waste product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste.

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures. **Note:** Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

Storage & Handling Precautions: Warning, harmful or fatal if swallowed. Causes eye, skin and respiratory irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Store upright in a cool, dry, well ventilated place away from incompatible materials. Do not use pressure to empty container. Wash thoroughly after handling. Use with adequate ventilation.

Repair and Maintenance Precautions: Do not cut, grind, weld or drill in, on or near this container.

Section 8 - First Aid Measures

If inhaled: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest.

In case of eye contact: Immediately flush eyes with clean water for at least twenty (20) minutes, lifting the upper and lower eye lids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention. Do not transport victim until the recommended flushing period has been completed, unless eye flushing can be carried out during transport.

In case of skin contact: Wash affected area with soap and water. Remove contaminated clothing and shoes. If irritation persists, get emergency medical attention. Wash and launder clothes before re-use.

In case of ingestion or swallowing: If victim is conscious, dilute stomach contents by giving one or two glasses of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all inclusive, and the manner and conditions of use may involve other and additional considerations.

Revised: 18 January 2005; 15 December 2006