

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Hydrogen Peroxide 34%**

Product Code: 105812-2699-1

Synonyms/Generic Names: N/A

Manufacturer:

Acid Products Company Inc.
600 West 41st Street
Chicago, IL 60609

24/7 Transportation Emergencies
Call CHEMTREC:800-424-9300
Account No.: CCN223

For More Information Call:

773-254-5222
(Monday - Friday 8:00-4:30)

2. HAZARD IDENTIFICATION

IF CONTACT WITH SKIN (or hair): Remove all contaminated clothing immediately and rinse skin with water/shower for at least 20 minutes.

GHS Ratings:

Inhalation Toxicity	Acute Tox. 3	Gases>500+<=2500ppm, Vapors>2+<=10mg/l, Dusts & mists>0.5+<=1mg/l
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Reproductive toxin	2	Human or animal evidence possibly with other information

GHS Hazards

H270 May cause or intensify fire; oxidizer

H302 Harmful if swallowed
 H314 Causes severe skin burns and eye damage
 H318 Causes serious eye damage
 H331 Toxic if inhaled
 H361 Suspected of damaging fertility or the unborn child

GHS Precautions

P102 Keep out of reach of children
 P202 Do not handle until all safety precautions have been read and understood
 P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
 P260 Do not breathe dust/fume/gas/mist/vapors/spray
 P264 Wash ... thoroughly after handling
 P271 Use only outdoors or in a well-ventilated area
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P281 Use personal protective equipment as required
 P307 IF exposed:
 P310 Immediately call a POISON CENTER or doctor/physician
 P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P352 Wash with soap and water
 P363 Wash contaminated clothing before reuse
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P308+P313 IF exposed or concerned: Get medical advice/attention
 P405 Store locked up
 P403+P233 Store in a well ventilated place. Keep container tightly closed

Signal Word: Danger



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Hydrogen peroxide	7722-84-1	31.50% 37.00%
Water	7732-18-5	64.50% 65.50%

4. FIRST-AID MEASURES

INHALATION: Move exposed party to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

EYE CONTACT: In case of eye contact, rinse with plenty of water for at least 20 minutes and seek medical attention immediately.

SKIN CONTACT: Immediately flush with plenty of water for at least 20 minutes while removing contaminated clothing. Get medical attention immediately.

INGESTION: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash Point: None

LEL:

UEL:

FLAMMABLE LIMITS: Product is not flammable. However, contact with metal may release flammable hydrogen gas.

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the fire and other materials present that are exposed to fire.

FIRE AND EXPLOSION HAZARD: Use water spray to cool unopened containers if necessary to prevent BLEVE (Boiling Liquid Expanding Vapor Explosion).

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions toxic fumes should be anticipated. **FIRE FIGHTING:** See also Stability and Reactivity section.

FIRE EQUIPMENT: Wear self-contained, approved breathing apparatus and full protective clothing (including eye protection and boots).

6. ACCIDENTAL RELEASE MEASURES

SPILL/LEAK: Follow your companies established procedures for reporting and/or responding to chemical incidents. No action shall be taken involving any personal risk without suitable training and use of appropriate personal protective equipment.

See section 8 for recommendations on the use of personal protective equipment.

SMALL SPILL: Stop leak if it can be done without risk. Be sure to utilize appropriate personal protective equipment. Clean up spilled material with noncombustible absorbent material, then place in a suitable container for disposal in accordance with Federal, state, and local requirements. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with Federal, state, and local regulations.

LARGE SPILL: No action shall be taken involving any personal risk or without suitable training, and use of appropriate personal protective equipment. Stop leak if it can be done without risk. Prevent spillage from entering drains and/or waterways. Any release to the environment may be subject to Federal, state, and local reporting requirements.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, or processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Use with adequate ventilation. Avoid formation of aerosol mixtures involving the product.

See section 8 for recommendations on the use of appropriate personal protective equipment.

STORAGE: Keep container closed when not in use. Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Protect from excessive heat and/or freezing.

REGULATORY: Do not store in unlabeled containers. Adhere to precautionary warnings on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name / CAS No.</u>	<u>OSHA Exp Limits</u>	<u>ACGIH Exp Limits</u>	<u>Other Exp Limits</u>
Hydrogen peroxide 7722-84-1	1 ppm TWA; 1.4 mg/m ³ TWA	1 ppm TWA	NIOSH: 1 ppm TWA; 1.4 mg/m ³ TWA
Water 7732-18-5	Not Established	Not Established	Not Established

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

VENTILATION: Use only with adequate ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions present. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

ADMINISTRATIVE CONTROLS: No action shall be taken involving any personal risk or without suitable training and issuance of appropriate personal protective equipment.

PROTECTIVE GEAR:

Eye protection: Wear safety goggles if eye contact with material is possible (face shield recommended if splashing is possible).

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is appropriate. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. **Other Skin**

Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: If needed, use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

CONTAMINATED GEAR: Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot, or as a specification for the product.

Specific Gravity (SG):	1.130 (approximate)
Appearance:	Colorless liquid
Odor:	Slight pungent odor

10. STABILITY AND REACTIVITY

Product is normally STABLE under normal conditions of storage and handling.

INCOMPATIBLE MATERIALS: Avoid contact with organic materials, flammable substance, alkalis

HAZARDOUS DECOMPOSITION: Slowly decomposes, evolving oxygen.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 2,335mg/kg

Inhalation Toxicity LC50: 3mg/L

Component Toxicity

7722-84-1 Hydrogen peroxide

Oral LD50: 1,518 mg/kg (Rat) Dermal LD50: 4,060 mg/kg (Rat) Inhalation LC50: 2 g/m³ (Rat)

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

TARGET ORGANS: Eyes, Skin, Respiratory System

Effects of Overexposure

CARCINOGENICITY: The following chemicals comprise 0.1 % or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NPT, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No Data Available

ACUTE TOXICITY: Eyes – may cause corneal damage, chronic irritation and swelling. Skin – sever irritations, temporary whitening of skin. Ingestion – sudden evolution of oxygen may cause injury by distention of stomach and may cause perforation of the gastro-intestinal tract and internal bleeding. Inhalation – irritating to mucous membranes and respiratory system.

CHRONIC EFFECTS: Not Known

12. ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials (if any).

Component Ecotoxicity

Hydrogen peroxide	96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96 Hr LC50 Lepomis macrochirus: 18 - 56 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 10.0 - 32.0 mg/L [static] 48 Hr EC50 Daphnia magna: 18 - 32 mg/L [Static]
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13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it may meet the criteria of a hazardous waste as defined in 40 CFR 261 as a minimum of a D002 material, defined as a Waste Corrosive material [pH ≤ 2 or ≥ 12.5, or corrosive to steel]. Other waste codes may apply. Waste material should only be sent to an appropriately permitted RCRA facility.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Dispose of in accordance with Federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

Important Note: The data provided in this section is for information purposes only. Please consult the appropriate regulations to properly classify your shipment for transportation, as shipping descriptions may vary based upon mode of transport, quantities, package size, and/or origin/destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

For small quantities packed in combination packaging, exceptions may apply.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
PHMSA	Hydrogen Peroxide, Aqueous Solution	UN2014	PG II	5.1, (8)

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: The following chemicals are reportable under Pennsylvania Right to Know:

7722-84-1 Hydrogen peroxide

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA313

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
U.S.A.	TSCA	Yes

United States inventory (TSCA 8b): All components are listed or exempted.

- None

SARA 313 Components: The following listed components (if any) are subject to the Supplier Notification Requirement found in 40 CFR 372.45 (c 4); a part of Title III of the Superfund Amendments and Reauthorization Act of 1986.

7722-84-1 Hydrogen peroxide 31.5-37.0%%

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

National Fire Protection Association (NFPA)

HMIS & NFPA Hazard Rating

Flammability

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	2
PERSONAL PROTECTION	D

Legend

* = Chronic Health Hazard

Health Instability

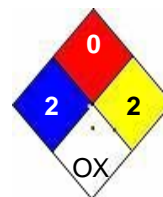
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH Special

4 = SEVERE



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