



SAFETY DATA SHEET

Version 2

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name: Hydrogen Peroxide 34% Std
UN/ID No UN2014
Recommended Use Industrial, Manufacturing or Laboratory use.
Company Name:
Hawkins, Inc., 2381 Rosegate, Roseville, MN 55113 (612-331-6910)

Emergency Telephone:
CHEMTREC (US): 1-800-424-9300

2. Hazards Identification

GHS - Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Chronic aquatic toxicity	Category 3



Signal Word: Danger

Hazard Statements:

- Harmful if swallowed
- Causes serious eye damage
- May cause respiratory irritation
- Harmful to aquatic life with long lasting effects

Other

May intensify fire; oxidizer.

Physical Hazards

Precautionary Statements:

- Keep away from heat
- Keep/Store away from clothing/ combustible materials
- Take any precaution to avoid mixing with combustibles
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wash skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- Wear protective gloves/protective clothing and eye/face protection

3. Composition / Information on Ingredients

Hazardous

Chemical Name	CAS No	Weight-%	EC No
---------------	--------	----------	-------

46394 Hydrogen Peroxide 34% Std

Hydrogen peroxide	7722-84-1	34-36	231-765-0
Non-Hazardous			
Chemical Name	CAS No	Weight-%	EC No
Water	7732-18-5	Balance	231-791-2

4. First Aid Measures

Eye Contact:	Rinse immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Skin Contact:	Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Immediate medical attention is required. Wash contaminated clothing before reuse.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention is required.
Ingestion:	Clean mouth with water. Do not induce vomiting without medical advice. Get medical attention.
Note to Physicians:	Effects of contact or inhalation may be delayed.

5. Fire-fighting Measures

Flammable Properties:

Oxidizer

Explosive Properties:

May be explosive in contact with acids, peroxides, all combustible organic or readily oxidizable materials including inorganic oxidizable materials and metal powders

Suitable Extinguishing Media:

Water spray (fog)

Unsuitable Extinguishing Media:

Do not use dry chemicals, CO₂, Halon, foam or fire blanket

Specific Hazards Arising from the Chemical:

Cool drums with water spray, Containers may explode when heated, Do not allow run-off from fire-fighting to enter drains or water courses

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures

Personal Precautions:	Evacuate personnel to safe areas. Ventilate affected area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for Containment:	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for Cleaning Up:	Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
Other Information:	Keep combustibles (wood, paper, oil, etc) away from spilled material. Combustible materials exposed to hydrogen peroxide should be thoroughly rinsed to remove all hydrogen peroxide.

7. Handling and Storage

Advice on Safe Handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Keep/Store away from clothing/ and other /combustible materials. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use only with adequate ventilation. Wash thoroughly after handling. It is a violation of state and federal law to use this product as a disinfectant or for any other pesticidal purpose.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from any source of heat or ignition. Keep/store only in original container. Do not store near combustible materials.

Incompatible Materials: Metals; Organic materials; Reducing agents; Metal oxides; Combustible material

8. Exposure Controls / Personal Protection

Chemical Name		ACGIH TLV		OSHA PEL		Ontario TWA	
Hydrogen peroxide		TWA: 1 ppm		1 ppm TWA 1.4 mg/m³ TWA		TWA: 1 ppm	
Chemical Name	European Union	China	Japan	Korea	Australia	Taiwan	
Hydrogen peroxide		TWA: 1.5 mg/m³ STEL: 3.75 mg/m³		TWA: 1 ppm TWA: 1.5 mg/m³	1 ppm 1.4 mg/m³	TWA: 1 ppm TWA: 1.4 mg/m³	

Engineering Controls: Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE)

Eye/Face Protection: Tight sealing safety goggles. Face protection shield.
Body Protection: Wear protective gloves and protective clothing. Wear protective Neoprene™ gloves. Impervious butyl rubber gloves.
Respiratory Protection: Use only with adequate ventilation.

General Hygiene Considerations:
 Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

Physical State:	Liquid	Odor:	Pungent
Appearance:	No information available	Odor Threshold:	No information available
Color:	Colorless		

Property	Values	Remarks • Method
pH:		No information available
"Salt Out" Point (°F):		No information available
Melting Point/Freezing Point:	-33 °C	No information available
Boiling Point/Boiling Range:	108 °C	No information available
Flash Point:		No information available
Evaporation Rate (BuAc=1):		No information available
Flammability (solid, gas):		No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:		Lower Flammability Limit:
Vapor Pressure (mm Hg) :	24 mmHg	No information available
Vapor density (Air =1)	1.0	No information available
Specific Gravity (H ₂ O=1):	1.13	No information available
Specific Gravity (2nd value):		No information available
Water Solubility:		No information available
Solubility(ies):		No information available
Partition Coefficient (n-octanol/water)		No information available
Autoignition Temperature:		No information available

46394 Hydrogen Peroxide 34% Std

Decomposition Temperature:	No information available
Kinematic Viscosity:	No information available
Dynamic Viscosity:	No information available
Oxidizing Properties:	No information available
Explosive Properties:	May be explosive in contact with acids, peroxides, all combustible organic or readily oxidizable materials including inorganic oxidizable materials and metal powders

9.2. Other information

Softening Point:	No information available
Molecular Weight:	34.01
VOC Content(%):	No information available
Density:	1.13
Bulk Density:	No information available
% Volatiles by Volume @ 21°C (70°F):	100

10. Stability and Reactivity

Stability:	Stable under normal conditions of use and storage
Conditions to Avoid:	Heat, flames and sparks; To avoid thermal decomposition, do not overheat; Incompatible Materials:
Incompatible Materials:	Metals, Organic materials, Reducing agents, Metal oxides, Combustible material
Hazardous Decomposition Products:	Oxygen
Possibility of Hazardous Reactions:	None under normal processing

11. Toxicological Information

Product Information

Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD ₅₀ :	Dermal LD ₅₀ :	LC ₅₀ (Lethal Concentration):
Hydrogen peroxide	801 mg/kg (Rat)	2000 mg/kg (Rabbit) 4060 mg/kg (Rat)	2 mg/L (Rat) 4 h
Water	90 mL/kg (Rat)		

Chronic Toxicity:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Chemical Name	IARC
Hydrogen peroxide	3

12. Ecological Information

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Toxic to aquatic life with long lasting effects

46394 Hydrogen Peroxide 34% Std

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Hydrogen peroxide	2.5: 72 h <i>Chlorella vulgaris</i> mg/L EC50	16.4: 96 h <i>Pimephales promelas</i> mg/L LC50 18 - 56: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 10.0 - 32.0: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	7.7: 24 h <i>Daphnia magna</i> mg/L EC50 18 - 32: 48 h <i>Daphnia magna</i> mg/L EC50 Static

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

13. Disposal Considerations

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. Transport Information

DOT

Proper shipping name HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS
Hazard Class 5.1
Subsidiary Class 8
UN/ID No UN2014
Packing Group II
Description UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS, 5.1 (8), PG II



15. Regulatory Information

International Inventories

AICS Complies
TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS -
IECSC Complies
KECL Complies
PICCS Complies

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Hydrogen peroxide	Listed	Listed	Listed	-	Listed	-	(1)-419	Listed	KE-20204	Present
Water	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-35400	Present

Inventory Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

46394 Hydrogen Peroxide 34% Std

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	CERCLA Hazardous Substances and the Reportable Quantities	SARA Extremely Hazardous Substances EPCRA RQ	SARA Extremely Hazardous Substances TPQ
Hydrogen peroxide		1000 lb EPCRA RQ (concentration >52%)	1000 lb TPQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive hazard	Yes

U.S. State Right-to-Know Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals

16. Other Information

National Fire Protection Association (NFPA) Ratings



NSF/ANSI 60 Certification



Maximum Use (mg/L unless otherwise indicated): 3

Prepared By: HSE Department

Issue Date: 22-Apr-2016

Revision Date: 15-Nov-2016

Revision Note: Reviewed and Re-issued.

Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be constructed as, a recommendation to infringe on any existing patents or to violate any Federal, State, or local laws.

End of Safety Data Sheet