

SAFETY DATA SHEET (SDS)

Hydrogen Peroxide 3% USP

02/10/2015

SDS Revision Date:

1. Identification

1.1. Product identifier

Product Identity

Alternate Names

Hydrogen Peroxide 3% USP

Product Number: 1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

Application Method

First aid to help prevent risk of infection; Aids in the removal of phlegm, mucous or other oral secretions
First aid antiseptic: apply a small amount of product on affected area 1 to 3 times daily
Oral rinse: mix with an equal amount of water and swish around mouth up to 4 times daily

1.3. Details of the supplier of the safety data sheet

Company Name

Emergency

Chemtrec 24 hour Emergency Telephone No.

Customer Service

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Corr. 1B;H314

Causes severe skin burns and eye damage.

Eye Dam. 1;H318

Causes serious eye damage.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

[Prevention]:

P260 Do not breathe mist / vapors / spray.

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P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
[Response]:
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Stay at rest.
P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P310 Immediately call a POISON CENTER or doctor / physician.
P363 Wash contaminated clothing before reuse.
[Storage]:
P405 Store locked up.
[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Hydrogen peroxide CAS Number: 0007722-84-1	1.0 - 10	Ox. Liq. 1;H271 Acute Tox. 4;H302 Acute Tox. 4;H302 Skin Corr. 1A;H314	[1][2]

[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PB-T-substance or VPB-substance.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion
If swallowed do NOT induce vomiting and obtain immediate medical attention.

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4.2. Most important symptoms and effects, both acute and delayed

Overview

Inhalation of vapors and mists irritate the nose and throat. Minimally irritating to the eyes and mildly irritating to the skin. See section 2 for further details.

Eyes

Causes serious eye damage.

Causes severe skin burns and eye damage.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; Flood with water spray or water fog.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxygen, which supports combustion.

Do not breathe mist / vapors / spray.

5.3. Advice for fire-fighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

ERG Guide No. -----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Biodegradable, non-hazardous to environment.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Flush with water: wear rubber boots, rubber apron and goggles.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Reducing agents, combustible materials.

Store in a cool, dark place. Avoid extreme heat.

See section 2 for further details. - [Storage]:

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7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

CAS No.	Ingredient	Source	Value
0007722-84-1	Hydrogen peroxide	OSHA ACGIH NIOSH Supplier	TWA 1 ppm (1.4 mg/m ³) TWA: 1 ppm TWA 1 ppm (1.4 mg/m ³) No Established Limit

Exposure

CAS No.	Ingredient	Source	Value
0007722-84-1	Hydrogen peroxide	OSHA Select Carcinogen: No NTP Known: No; Suspected: No IARC Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;	

Carcinogen Data

8.2. Exposure controls

Respiratory

Eyes

Skin

Engineering Controls

Other Work Practices

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Protective goggles if desired.

Rubber or vinyl gloves.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance
Clear, Colorless Liquid

Odor
Odorless

Odor threshold
Not Measured

pH
Not Available

Melting point / freezing point
Not Available

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Initial boiling point and boiling range	212°F
Flash Point	Not Applicable
Evaporation rate (Butyl Acetate = 1)	> 1
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Applicable Upper Explosive Limit: Not Applicable
Vapor pressure (Pa)	23 mmHg
Vapor Density	Not Available
Specific Gravity (H ₂ O = 1)	1.1
Solubility in Water	Complete
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Heavy Metals	5 ppm maximum
Limit of Preservative	NMT 50 mg
Hydrogen Peroxide Assay	2.5%-3.5%
9.2. Other information	No other relevant information.

10. Stability and reactivity

- 10.1. Reactivity
 - Hazardous Polymerization will not occur.
- 10.2. Chemical stability
 - Stable under normal circumstances.
- 10.3. Possibility of hazardous reactions
 - No data available.
- 10.4. Conditions to avoid
 - Extreme heat and contamination.
- 10.5. Incompatible materials
 - Reducing agents, combustible materials.
- 10.6. Hazardous decomposition products
 - Oxygen, which supports combustion.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Hydrogen peroxide - (7722-84-1)	801.00, Rat - Category: 4	2,000.00, Rat - Category: 4	2.00, Rat - Category: 2	No data available	No data available

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Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	EC50 algae, mg/l
Hydrogen peroxide - (7722-84-1)	22.00, Oncorhynchus mykiss	2.32, Daphnia magna	0.71 (72 hr), Microcystis pulverea ssp. incerta

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and VPVB assessment

This product contains no PBT/VPVB chemicals.

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12.6. Other adverse effects
No data available.

13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

14.1. UN number	Not Applicable	Not Regulated	Not Regulated	ICAO/IATA
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated	
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable	Air Class: Not Applicable	
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable	
14.5. Environmental hazards				
IMDG	Marine Pollutant: No			
14.6. Special precautions for user	No further information			

15. Regulatory information

Regulatory Overview
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
All components of this material are either listed or exempt from listing on the TSCA Inventory.
D2B E
US EPA Tier II Hazards
Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No
EPCRA 311/312 Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 302 Extremely Hazardous:
Hydrogen peroxide
EPCRA 313 Toxic Chemicals:

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To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
New Jersey RTK Substances (>1%):
Hydrogen peroxide
Pennsylvania RTK Substances (>1%):
Hydrogen peroxide

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H271 May cause fire or explosion; strong oxidizer.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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