

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date 17-Apr-2023

Revision Number 1

1. Identification			
Product identifier			
Product Name	Hydrogen Peroxide, 3% (w/w) Reagent		
Other means of identification			
Product Code(s)	2650		
Synonyms	No information available		
Recommended use of the chemica	and restrictions on use		
Recommended use	Industrial use Laboratory use Industrial Manufacturing (all)		
Restrictions on use	No information available		
Details of the supplier of the safety	y data sheet		
Supplier Address Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI 53925 USA Phone: (920) 623-2140 Fax: (920) 623-2577 www.columbuschemical.com			
Emergency telephone number			
24 Hour Emergency Phone Numbe	r CHEMTREC: 1-800-424-9300 for US / 703-527-3887 outside US		
Emergency Telephone	911		
2 Hazard(a) identification			
2. Hazard(s) identification			
Classification			
Skin corrosion/irritation Serious eye damage/eye irritation	Category 2 Category 1		
Hazards not otherwise classified (HNOC)			
Not applicable			
Label elements Danger			
Hazard statements H315 - Causes skin irritation H318 - Causes serious eye damage			
Page 1 / 9			



Precautionary Statements - Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P321 - Specific treatment (see First-Aid Measures on SDS)
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse

Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Formula	Molecular Weight
Water	7732-18-5	Balance	H ₂ O	18.00 g/mol
Hydrogen peroxide	7722-84-1	3	H_2O_2	34.01 g/mol

4. First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).		
Most important symptoms and effects, both acute and delayed			
Symptoms	Burning sensation.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	No information available.		
Explosion data Sensitivity to mechanical impact None.			
Sensitivity to static discharge	None.		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		

6. Accidenta	l release measures
--------------	--------------------

Personal precautions, protective equipment and emergency procedures	

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	

Methods for cleaning up	Pick up and transfer to properly labeled containers.
memora e le ele ele ele ele ele ele ele ele e	

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³ (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m ³	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Tight sealing safety goggles.		
Hand protection	Wear suitable gloves. Impervious gloves.		
Skin and body protection Respiratory protection	Wear suitable protective clothing. Long sleeved clothing. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do		

not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties				
Physical state	Liquid			
Appearance	Clear			
Color	Colorless			
Odor	No information available			
Odor threshold	No information available			
Property	<u>Values</u>	Remarks • Method		
рН	No data available	No data available		
pH (as aqueous solution)	No data available	No data available		
Melting point / freezing point	No data available	No data available		
Initial boiling point and boiling	No data available	No data available		
range				
Flash point	No data available	No data available		
Evaporation rate	No data available	No data available		
Flammability	No data available	No data available		
Flammability Limit in Air				

Upper flammability or explosive	No data available	No data available
limits		
Lower flammability or explosive	No data available	No data available
limits		
Vapor pressure	No data available	No data available
Relative vapor density	No data available	No data available
Relative density	1.02	No data available
Water solubility	No data available	No data available
Solubility(ies)	No data available	No data available
Partition coefficient	No data available	No data available
Autoignition temperature	No data available	No data available
Decomposition temperature		
Kinematic viscosity	No data available	No data available
Dynamic viscosity	No data available	No data available
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight		
VOC content	No information available	
Liquid Density	No information available	
Bulk density	No information available	
Durk density		

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products None known based on information supplied.	

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral)ATEmix (oral)50,600.00 mg/kgATEmix (dermal)306,666.70 mg/kgATEmix (inhalation-gas)99,999.00 ppmATEmix (inhalation-vapor)99,999.00 mg/lATEmix (inhalation-dust/mist)66.70 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	>90 mL/kg (Rat)	-	-
Hydrogen peroxide	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m ³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause skin irritation. Classification based on data available for ingredients. Causes skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Causes serious eye damage.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.
--

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide	A3	Group 3	-	-
A3 - Animal Carcinoge IARC (International A				
Reproductive toxicity	No information	on available.		

STOT - single exposure	No information available.
or or - single exposure	

- **STOT repeated exposure** No information available.
- Target organ effectsRespiratory system, Eyes, Skin.

Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrogen peroxide	-	LC50: =16.4mg/L (96h, Pimephales promelas) LC50: 18 - 56mg/L (96h, Lepomis macrochirus) LC50: 10.0 - 32.0mg/L (96h, Oncorhynchus mykiss)	-	EC50: 18 - 32mg/L (48h, Daphnia magna)

Persistence and degradability	No information available.
Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. Disposal considerations		
Disposal methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.	

14. Transport information

DOT DOT Marine Pollutant	Not regulated No
TDG	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. Regulatory information

. .

International Inventories	
TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

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

- **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
- AICS Australian Inventory of Chemical Substances
- NZIOC New Zealand Inventory of Chemicals

US Federal Regulations

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Hydrogen peroxide	-	1000 lb	

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
Hydrogen peroxide	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other info	ormation						
NFPA HMIS	Health hazards Health hazards		Flammability Flammability		Instability 0 Physical hazards	ial hazards - onal protection	х
Legend Section TWA Ceiling Key literature refe	abbreviations and acr 8: EXPOSURE CONT TWA (time-weighted a Maximum limit value erences and sources f Substances and Diseas	ROLS/Pl iverage)	ERSONAL PRO S * used to compile	TECTION STEL	neet STEL (Short ⁻ Skin designat	ure Limit)	
U.S. Environmenta European Food Sa EPA (Environment Acute Exposure G U.S. Environmenta U.S. Environmenta Food Research Jo	al Protection Agency Ch afety Authority (EFSA) cal Protection Agency) uideline Level(s) (AEGI al Protection Agency Fe al Protection Agency Hig urnal	lemView ₋(s)) deral Ins	Database		odenticide Act		
National Institute of Australia National NIOSH (National II National Library of	nce Database rm Chemical Informatic of Technology and Evalu Industrial Chemicals Non Institute for Occupationa Medicine's ChemID Plu Medicine's PubMed da	uation (N otification Il Safety us (NLM	ITE) and Assessmer and Health) CIP)	nt Scheme	(NICNAS)		
National Toxicolog New Zealand's Ch Organization for Ec Organization for Ec	y Program (NTP) emical Classification ar conomic Co-operation a conomic Co-operation a conomic Co-operation a	nd Inform and Deve and Deve	ation Database (elopment Environ elopment High Pr	ment, Heard	/olume Chemicals Pro		
		Data Sl	tion available. neet is correct to				

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet