

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

CAS Number: 7722-84-1
Product Name: Hydrogen Peroxide 6%
Revision Date: Sep 29, 2021 **Date Printed:** Sep 29, 2021
Version: 1.0 **Supersedes Date:** N.A.
Manufacturer's Name: Thames River Chemical Corp.
Address: 5230 Harvester Road Burlington, ON, CA, L7L 4X4
Emergency Phone: CHEMTREC (800) 424-9300
Information Phone Number: 905-681-5353
Fax: 905-681-5377
Product/Recommended Uses: For laboratory or industrial use only.

SECTION 2) HAZARDS IDENTIFICATION**Classification**

Serious Eye Damage - Category 1

Pictograms**Signal Word**

Danger

Hazard Statements - Health

H318 - Causes serious eye damage

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

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.

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

No precautionary statement available.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0007732-18-5	WATER	94% - 94%
0007722-84-1	HYDROGEN PEROXIDE	7% - 9%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality or to reflect batch to batch variation.

SECTION 4) FIRST-AID MEASURES**Inhalation**

Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration.

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin Contact

Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes or until medical aid is available.

Ingestion

Get medical advice/attention. Do NOT induce vomiting.

Most Important Symptoms and Effects, Both Acute and Delayed

No data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically

SECTION 5) FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water. Water spray. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media

Carbon dioxide (CO₂). Dry chemical.

Specific Hazards in Case of Fire

Oxidizer: Contact with combustible/organic material may cause fire. Keep product and empty container away from heat and sources of ignition.

Fire-fighting Procedures

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

SECTION 6) ACCIDENTAL RELEASE MEASURES**Personal Precautions**

Use personal protective equipment as required. Ensure adequate ventilation

Environmental Precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

Methods and Materials for Containment and Cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

SECTION 7) HANDLING AND STORAGE

Storage Room Requirements

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Long-term storage is not recommended.

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Use Chemical goggles

Skin Protection

Recommendation: Protective gloves made of butyl rubber , nitrile rubber protective gloves.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

Appropriate Engineering Controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

8.2 Exposure Controls

Hydrogen Peroxide
 Exposure limits: 1ppm, 1.4 mg/m3
 Basis: TLV, Entity: ACGIH
 Exposure limits: 1ppm, 1.4 mg/m3
 Basis: PEL, Entity: OSHA
 Exposure limits: 1ppm, 1.4 mg/m3
 Basis: REL, Entity: NIOSH

Chemical Name	CAN_ONsmg	CAN_ONtmg	CAN_ONsppm	CAN_ONtppm	CAN_QCVEMP ppm - CANADA_QUE BEC VALEUR D'EXPOSITION MOYENNE PONDÉRÉE_p pm	CAN_QCVEMP mg - CANADA_QUE BEC VALEUR D'EXPOSITION MOYENNE PONDÉRÉE_m g	CAN_QCVECD ppm - CANADA_QUE BEC VALEUR D'EXPOSITION DE COURTE DURÉE_ppm	CAN_QCVECD mg - CANADA_QUE BEC VALEUR D'EXPOSITION DE COURTE DURÉE_mg
HYDROGEN PEROXIDE					1	1,4		

Chemical Name	CAN_ALtppm	CAN_ALtmg	CAN_ALsmg	CAN_AL_Notat ion	CAN_AL_Carci nogen	CAN_ALsppm	CANsmg	CANsppm
HYDROGEN PEROXIDE	1	1.4		3: Occupational exposure limit is based on irritation effects and its adjustment to compensate for			2.8	2

unusual work schedules is not required.

Chemical Name	CANtmg	CANtppm	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)
HYDROGEN PEROXIDE	1.4	1			1.4	1		1

Chemical Name	OSHA Skin designation	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH TLV Basis	ACGIH Carcinogen	ACGIH Notations
HYDROGEN PEROXIDE					1	Eye, URT & skin irr	A3	A3

A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, irr - Irritation, URT - Upper respiratory tract

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Density	8.345E-03 lb/gal
Specific Gravity	1.000E-03
Appearance	Clear colorless liquid
Coefficient Water/Oil	log Pow 1.1
Evaporation Rate	N/A
Flash Point	No data available
High Boiling Point	N/A
Low Boiling Point	100.00
Lower Explosion Level	N/A
Melting/Freezing Point	0.00
Odor Description	No data available
Odor Threshold	No data available
pH	2.5-3.5
Upper Explosion Level	N/A
Vapor Density	No data available
Vapor Pressure	No data available
Viscosity	No data available
Water Solubility	N/A

SECTION 10) STABILITY AND REACTIVITY

Reactivity

None known

Stability

Sensitivity to light.

Conditions to Avoid

Incompatible products. Excess heat. Exposure to light.

Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

Incompatible Materials

Strong oxidising agents

Hazardous Decomposition Products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11) TOXICOLOGICAL INFORMATION**Acute Toxicity**

Based on available data, the criteria for hazardous classification has not been met.

Component: Hydrogen peroxide

LD50 Oral: 376 mg/kg (Rat) (90%)

910 mg/kg (Rat) (20-60%) 1518 mg/kg (Rat) (8-20% sol)

LD50 Dermal:>2000 mg/kg (Rabbit)

LC50 Inhalation: LC50 = 2000 mg/m3 (Rat) 4 h

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

Aspiration Hazard

No data available

Carcinogenicity

No data available

Germ Cell Mutagenicity

No data available

Reproductive Toxicity

No data available

Respiratory/Skin Sensitization

No data available

Serious Eye Damage/Irritation

No data available

0007722-84-1 HYDROGEN PEROXIDE

Corrosive to the eye.

Skin Corrosion/Irritation

0007722-84-1 HYDROGEN PEROXIDE

Corrosive to the skin.

Specific Target Organ Toxicity - Repeated Exposure

No data available

Specific Target Organ Toxicity - Single Exposure

No data available

0007722-84-1 HYDROGEN PEROXIDE

The vapour is irritating to the respiratory tract.

Miscellaneous Health Effects

0007722-84-1 HYDROGEN PEROXIDE

Ingestion of this substance may produce oxygen bubbles (embolism) in the blood, resulting in shock.

Likely Routes of Exposure

0007722-84-1 HYDROGEN PEROXIDE

The substance can be absorbed into the body by inhalation of its vapour and by ingestion.

0007722-84-1 HYDROGEN PEROXIDE

LC50 (rat): 2000 mg/m³ (4-hour exposure; whole body exposure) (concentration not specified) (3) NOTE: This value is not considered reliable since a whole body exposure was used and the study was poorly reported.

LD50 (oral, male rat): 1193 mg/kg (35% solution) (4, unconfirmed)
LD50 (oral, female rat): 801 mg/kg (60% solution) (4, unconfirmed)
LD50 (oral, male rat): 75 mg/kg (70% solution) (4, unconfirmed)
LD50 (oral, mouse): 2000 mg/kg (90% solution) (4,12, unconfirmed)
LD50 (dermal, rabbit): approximately 690 mg/kg (90% solution) (4, unconfirmed)
LD50 (oral, male rat): 1517 mg/kg (9.6% solution) (4,12)

SECTION 12) ECOLOGICAL INFORMATION

Bioaccumulative Potential

Low potential for bioaccumulation.

0007722-84-1 HYDROGEN PEROXIDE

No potential for bioaccumulation.

Toxicity

The product contains following substances which are hazardous for the environment:

Component: Hydrogen Peroxide
Freshwater Fish: LC50: 16.4 mg/L/96h
Water Flea: EC50 7.7 mg/L/24h
Freshwater Algae: EC50 2.5 mg/L/72h

Mobility in Soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

Persistence and Degradability

Persistence: Soluble in water, Persistence is unlikely, based on information available. Degradability: Not relevant for inorganic substances. Degradation in sewage treatment plant: Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

0007722-84-1 HYDROGEN PEROXIDE

Readily biodegradable.

Results of the PBT and vPvB assessment

0007722-84-1 HYDROGEN PEROXIDE

The substance is not PBT/vPvB.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

Waste from Residues/Unused Products: Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging: Dispose of this container to hazardous or special waste collection point.

Other Information: Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

SECTION 14) TRANSPORT INFORMATION

Transport Canada Information

Not regulated

U.S. DOT Information

Not regulated

IMDG Information

Not regulated

IATA Information

Not regulated

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0007732-18-5	WATER	94% - 94%	DSL,TSCA,AICS,CN_IECSC - Inventory of Existing Chemical Substances Produced or Imported in China,EU_EINECS - European_EC_Inventory_EINECS,EU_EC_Inventory - European_EC_Inventory,PH_PICCS - Philippines, The Philippine Inventory of Chemicals and Chemical Substances,KR_KECI - Korean Existing Chemicals Inventory
0007722-84-1	HYDROGEN PEROXIDE	7% - 9%	DSL,TSCA,AICS,CN_IECSC - Inventory of Existing Chemical Substances Produced or Imported in China,EU_EINECS - European_EC_Inventory_EINECS,EU_EC_Inventory - European_EC_Inventory,PH_PICCS - Philippines, The Philippine Inventory of Chemicals and Chemical Substances,KR_KECI - Korean Existing Chemicals Inventory

SECTION 16) OTHER INFORMATION

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

Version 1.0:



SAFETY DATA SHEET

CAS Number: 7722-84-1
Product Description: Hydrogen
Peroxide 6%

Revision Date: Sep 29, 2021
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