

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

CAS Number: 7722-84-1
Product Name: Hydrogen Peroxide 3% USP Grade
Revision Date: Apr 08, 2020 **Date Printed:** Apr 08, 2020
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, industrial and food grade applications.

SECTION 2) HAZARDS IDENTIFICATION

Classification

Serious Eye Damage - Category 1
Skin Irritation - Category 2

Pictograms



Signal Word

Danger

Hazard Statements - Health

Causes serious eye damage
Causes skin irritation

Precautionary Statements - General

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection.
Wash/Wash hands thoroughly after handling.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
IF ON SKIN: Wash with plenty of water and soap.
Specific treatment (see first-aid on the SDS).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing. And wash it before reuse.

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

No precautionary statement available.

Physical Hazards Not Otherwise Classified

No data available.

Health Hazards Not Otherwise Classified

No data available.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

| CAS | Chemical Name | % By Weight |
|--------------|-------------------|-------------|
| 0007732-18-5 | WATER | 97% |
| 0007722-84-1 | HYDROGEN PEROXIDE | 3% |

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes or until medical aid is available. Seek medical attention.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse/wash with lukewarm, gently flowing water and mild soap for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention. Wash contaminated clothing before re-use or discard.

Ingestion

Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. If in doubt, seek medical assistance. Obtain emergency medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

No data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Product is not flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use flooding quantities of water to cool unopened containers.

Unsuitable Extinguishing Media

Do not use straight stream of water.

Specific Hazards in Case of Fire

Fire will produce irritating gases.

Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done safely.

Special Protective Actions

Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering.

Recommended Equipment

Wear chemical protective clothing.

Personal Precautions

Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Dike far ahead of liquid spill for later disposal.

Methods and Materials for Containment and Cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use. Do not get in eyes, on skin or on clothing. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits.

Storage Room Requirements

Store in dry, cool areas, out of direct sunlight and away from other sources of heat. Store in original containers. Keep containers securely sealed. Isolate from combustible material. Store in the dark. Store in vented containers. Keep away from incompatible materials.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

| Chemical Name | CANsmg | CANspmm | CANtmg | CANtppm | OSHA STEL (mg/m3) | OSHA STEL (ppm) | OSHA TWA (mg/m3) | OSHA TWA (ppm) |
|-------------------|--------|---------|--------|---------|-------------------|-----------------|------------------|----------------|
| HYDROGEN PEROXIDE | 2.8 | 2 | 1.4 | 1 | | | 1.4 | 1 |

| Chemical Name | OSHA Carcinogen | OSHA Tables (Z1, Z2, Z3) | OSHA Skin designation | ACGIH STEL (mg/m3) | ACGIH STEL (ppm) | ACGIH TWA (mg/m3) | ACGIH TWA (ppm) | ACGIH TLV Basis |
|---------------|-----------------|--------------------------|-----------------------|--------------------|------------------|-------------------|-----------------|-----------------|
|---------------|-----------------|--------------------------|-----------------------|--------------------|------------------|-------------------|-----------------|-----------------|

| | | | | | | | |
|-------------------|--|---|--|--|--|---|---------------------|
| HYDROGEN PEROXIDE | | 1 | | | | 1 | Eye, URT & skin irr |
|-------------------|--|---|--|--|--|---|---------------------|

| Chemical Name | ACGIH Carcinogen | ACGIH Notations |
|-------------------|------------------|-----------------|
| HYDROGEN PEROXIDE | A3 | A3 |

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

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

| | |
|------------------------|-----------------------------|
| Density | 8.43 lb/gal |
| Specific Gravity | 1.01 |
| <hr/> | |
| Appearance | N/A |
| Odor Description | No Odor |
| Odor Threshold | N/A |
| pH | No Data Available |
| Melting/Freezing Point | No Data Available |
| Low Boiling Point | No Data Available |
| High Boiling Point | N/A |
| Flash Point | Not Flammable |
| Vapor Pressure | No Data Available |
| Vapor Density | No Data Available |
| Evaporation Rate | No Data Available |
| Upper Explosion Level | N/A |
| Lower Explosion Level | N/A |
| Water Solubility | Completely soluble in water |
| Coefficient Water/Oil | No Data Available |
| Viscosity | N/A |

SECTION 10) STABILITY AND REACTIVITY

Reactivity

No data available.

Stability

Stable under normal storage and handling conditions.

Conditions to Avoid

Unstable on exposure to light.

Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

Incompatible Materials

Strong reducing agents. Strong bases. metals. combustible materials.

Hazardous Decomposition Products

oxygen

Likely Route of Exposure

Inhalation, ingestion, skin absorption

Acute Toxicity

No data available.

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

Causes serious eye damage

0007722-84-1 HYDROGEN PEROXIDE

Corrosive to the eye.

Skin Corrosion/Irritation

Causes skin 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

0007722-84-1 HYDROGEN PEROXIDE

The vapour is irritating to the respiratory tract.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

0007722-84-1 HYDROGEN PEROXIDE

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

Miscellaneous Health Effects

0007722-84-1 HYDROGEN PEROXIDE

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

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)

Toxicity

No data available.

Mobility in Soil

No data available.

Bio-accumulative Potential

0007722-84-1 HYDROGEN PEROXIDE

No potential for bioaccumulation.

Persistence and Degradability

0007722-84-1 HYDROGEN PEROXIDE

Readily biodegradable.

Other Adverse Effects

No data available.

Results of the PBT and vPvB assessment

0007722-84-1 HYDROGEN PEROXIDE

The substance is not PBT/vPvB.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, provincial and local laws.

SECTION 14) TRANSPORT INFORMATION

Transport Canada Information

UN number: Not Regulated

Hazard class: N/A

Proper shipping name: N/A

Packaging group: N/A

U.S. DOT Information

UN number: Not Regulated

Hazard class: N/A

Packaging group: N/A

Proper shipping name: N/A

SECTION 15) REGULATORY INFORMATION

| CAS | Chemical Name | % By Weight | Regulation List |
|--------------|-------------------|-------------|--------------------------|
| 0007722-84-1 | HYDROGEN PEROXIDE | 3% | DSL,TSCA,EU_EC_Inventory |

The information in this Section does not list non-hazardous components that might have relevant DSL, EU_EC_Inventory, TSCA regulatory values, if they are present at less than 100%. Please contact manufacturer for more information.

SECTION 16) OTHER INFORMATION

Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CANsmg or CANspmm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg

or CANTppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; 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 (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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