



# Safety Data Sheet

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## Section 01 Identification

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<b>Product Identifier</b>	TANKHERO Sanitizer
<b>Other Means of Identification</b>	Not available
<b>Product Use and Restrictions on Use</b>	TANKHERO Sanitizer is a peracetic acid/hydrogen peroxide sanitizing agent effective against microorganism growth.
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7  Phone: 800.387.7503 Fax: 888.281.8109 <a href="http://www.cleartech.ca">www.cleartech.ca</a>
<b>Prepared By</b>	ClearTech Industries Inc. technical writer
<b>24-Hour Emergency Phone</b>	306.664.2522

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## Section 02 Hazard Identification

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### Physical Hazards

<b>Oxidizing liquid</b>	Category 2
<b>Corrosive to metals</b>	Category 1

### Health Hazards

<b>Acute toxicity - inhalation</b>	Category 4
<b>Skin corrosion / irritation</b>	Category 1B
<b>Serious eye damage / eye irritation</b>	Category 1
<b>Specific target organ toxicity - single exposure</b>	Category 3

### Signal Word

**Danger**

### Hazard Statements

- H272 May intensify fire; oxidizer.
- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.

### Pictograms



## Precautionary Statements

### Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 Keep away from clothing and other combustible materials.
- P234 Keep only in original packaging.
- P260 Do not breathe vapours, fumes, or mists.
- P264 Wash affected body parts thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, protective clothing, eye protection, face protection

### Response

- P301 P330 P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 P361 P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
- P304 P340 P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
- P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P390 Absorb spillage to prevent material damage.

### Storage

- P403 Store in a well-ventilated place.
- P233 Keep container tightly closed.
- P405 Store locked up.

### Disposal

- P501 Dispose of contents / container in accordance with all federal, provincial and / or local regulations including the Canadian Environmental Protection Act.

## Hazards Not Otherwise Classified

Not available

## Supplemental Information

Not available

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## Section 03 Composition / Information on Ingredients

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### Hazardous Ingredients:

Chemical name	Common name(s)	CAS number	Concentration (w/w%)
Ethaneperoxoic acid	Peroxyacetic acid	79-21-0	3-7%*
Hydrogen peroxide	Not available	7722-84-1	20-50%*

\*Exact concentration withheld as a trade secret.

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## Section 04 First-Aid Measures

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### Description of necessary first-aid measures

- Inhalation** Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. If breathing has stopped, trained personnel should begin rescue breathing or if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). Avoid mouth to mouth contact by using a barrier device.
- Ingestion** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs naturally, lie on your side, in the recovery position.
- Skin contact** Avoid direct contact. Wear chemical protective clothing, if necessary. Take off immediately contaminated clothing, shoes and leather goods. Rinse skin with lukewarm, gently flowing water / shower for 30 minutes. Store contaminated clothing under water and wash before re-use or discard. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before re-use, or discard.
- Eye contact** Avoid direct contact. Wear chemical protective gloves, if necessary. Remove source of exposure or move person to fresh air. 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 30 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor.

### Most important symptoms and effects, both acute and delayed

- Inhalation** Causes severe burns to the mouth and throat (mist). May cause respiratory irritation.
- Ingestion** Causes burns to the mouth and throat.
- Skin contact** Causes severe skin burns.
- Eye contact** Causes serious eye damage.
- Further information** For further information see Section 11 Toxicological Information.

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## Section 05 Fire Fighting Measures

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- Suitable extinguishing media** This material is an oxidizer. Use large quantities of water as fog to fight fires in which this material is involved.
- Unsuitable extinguishing media** Carbon dioxide or other extinguishing agents that smother flames are not effective in fires involving oxidizers. Do NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents), since an explosive compound can be formed. Water jets are not recommended in fires involving chemicals.
- Specific hazards arising from the chemical** May intensify fire; oxidizer.
- Special protective equipment for fire-fighters** Wear NIOSH-approved self-contained breathing apparatus and chemical-protective clothing.

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## Section 06 Accidental Release Measures

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- Personal Precautions / Protective Equipment / Emergency Procedures** Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Stay upwind, ventilate area. Do not breathe vapours, fumes, or mists. Do not use material handling equipment with exposed metal surfaces.
- Environmental Precautions** Prevent material from entering waterways, sewers or confined spaces. Notify local health and wildlife officials. Notify operators of nearby water intakes.

**Methods and Materials for Containment and Cleaning Up**

SMALL SPILLS: Stop or reduce leak if safe to do so. Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. Use vented containers to avoid pressure buildup.  
LARGE SPILLS: Contact fire and emergency services and supplier for advice.

## Section 07 Handling and Storage

**Precautions for Safe Handling**

Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Prevent the release of vapours, fumes, or mists into the workplace air.  
Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills and leaks readily available.  
Never return contaminated material to its original container.

**Conditions for Safe Storage**

Store in a cool, dry, well-ventilated area, out of direct sunlight, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect label and keep it visible. Do not transfer to metal containers.

**Incompatibilities**

Bases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime), ammonia, carbonates.  
Reducing agents, such as hydrogen, sodium borohydride, sulphur dioxide, thiosulphates, hydrazine, phosphites, carbon, and oxalic, formic and ascorbic acid.  
Organic material, such as wood, paper, gasoline, diesel, solvents and some glycol based heat transfer fluids  
Metals, such as aluminum, steel, and brass.

## Section 08 Exposure Controls and Personal Protection

Exposure limits

Component	Regulation	Type of listing	Value
Hydrogen Peroxide	ACGIH	TWA	1 ppm

Engineering controls

**Ventilation Requirements**

Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

**Other**

An emergency shower and eyewash station should be available, tested, and be in close proximity to the product being handled in accordance with provincial regulations.

Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

**Eye and face protection**

Where there is potential eye or face exposure, tightly fitting safety goggles and a face shield or a full face respirator or similar protective equipment which protects the wearer's face and eyes are recommended.

**Hand and body protection** Disposable latex or nitrile gloves are recommended to prevent incidental contact. Butyl rubber, neoprene, or PVC skin protection is recommended for extended contact. Leather gloves are not recommended for chemical protection. Refer to manufacturer's specifications for breakthrough times and permeability information; note that breakthrough times and permeability vary with temperature, application and age of material. Continued use of contaminated safety gear or clothing is not recommended; wash before reuse or discard.

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

**NIOSH respirator recommendations for: Hydrogen peroxide**

**Up to: 10 ppm**

(APF = 10) Any supplied-air respirator

**Up to: 25 ppm**

(APF = 25) Any supplied-air respirator operated in a continuous-flow mode

**Up to: 50 ppm**

(APF = 50) Any self-contained breathing apparatus with a full facepiece.

(APF = 50) Any supplied-air respirator with a full facepiece

**Up to: 75 ppm**

(APF = 2000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

**Emergency or planned entry into unknown concentrations or IDLH conditions:**

(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

**Escape:**

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against Hydrogen peroxide

**Thermal hazards** Not available

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## Section 09 Physical and Chemical Properties

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**Appearance**

**Physical state** Liquid  
**Colour** Clear, colourless  
**Odour** Sharp, vinegar-like  
**Odour threshold** Not available

**Property**

**pH** <1  
**Melting point / freezing point** Not available  
**Initial boiling point and boiling range** Not available

Flash point	74-83 °C
Evaporation rate	Not available
Flammability	Not applicable
Upper flammable limit	Not applicable
Lower flammable limit	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not applicable
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	435 °C
Decomposition temperature	Not available
Viscosity	Not available
Specific gravity	1.13-1.14 g/mL @ 20 °C

## Section 10 Stability and Reactivity

<b>Reactivity</b>	May be corrosive to metals. This product is an oxidizer and will react with reducing agents and organic compounds such as paper or wood to produce heat and could potentially catch fire.
<b>Stability</b>	This product is stable if stored according to the recommendations in Section 07. Exposure to sunlight or high temperatures may cause the degradation of this product over time.
<b>Possibility of hazardous reactions</b>	Not available
<b>Conditions to avoid</b>	Avoid contact with incompatible materials. Do not heat.
<b>Incompatible materials</b>	Bases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime), ammonia, carbonates. Reducing agents, such as hydrogen, sodium borohydride, sulphur dioxide, thiosulphates, hydrazine, phosphites, carbon, and oxalic, formic and ascorbic acid. Organic material, such as wood, paper, gasoline, diesel, solvents and some glycol based heat transfer fluids Metals, such as aluminum, steel, and brass.
<b>Hazardous decomposition products</b>	Molecular oxygen.

## Section 11 Toxicological Information

### Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
Acute toxicity estimate	Inhalation (aerosol)	Rat	4,080 mg/m <sup>3</sup>	4 hours

### Toxic Health Effect Summary

<b>Chemical characteristics</b>	Strong oxidizer.
<b>Skin</b>	Causes severe skin burns.
<b>Ingestion</b>	Causes burns to the mouth and throat.

<b>Inhalation</b>	Causes severe burns to the mouth and throat (mist). May cause respiratory irritation.
<b>Eye contact</b>	Causes serious eye damage.
<b>Sensitization</b>	This product and its components at their listed concentration have no known sensitizing effects.
<b>Mutagenicity</b>	This product and its components at their listed concentration have no known mutagenic effects.
<b>Carcinogenicity</b>	IARC has classified hydrogen peroxide as group 3, not classifiable as to its carcinogenicity to humans.
<b>Reproductive toxicity</b>	This product and its components at their listed concentration have no known reproductive effects.
<b>Specific organ toxicity</b>	This product and its components at their listed concentration have no known effects on specific organs.
<b>Aspiration hazard</b>	Not available
<b>Synergistic materials</b>	Increased airways resistance was observed in volunteers exposed to hydrogen peroxide and sulfur dioxide aerosols at the same time. An animal study has shown that concurrent inhalation exposure to fine particulates and hydrogen peroxide can increase the toxicity of both to the lungs. Exposure to hydrogen peroxide also increased the toxicity of ozone in animals.

## Section 12 Ecological Information

### Ecotoxicity

<b>Component</b>	<b>Type</b>	<b>Species</b>	<b>Value</b>	<b>Exposure Time</b>
Peroxyacetic acid	LC50	Freshwater fish	0.54 mg/L	72 hours
	EC50	Freshwater invertebrates	0.73 mg/L	48 hours
	EC50	Freshwater algae	0.16 mg/L	48 hours

<b>Biodegradability</b>	The domestic substance list categorizes all of the components of this product as non-persistent.
<b>Bioaccumulation</b>	The domestic substance list categorizes all of the components of this product as non-bioaccumulative.
<b>Mobility</b>	This product is water soluble, is not predicted to adsorb to soil and may contaminate ground water. This product will evaporate and may be spread via wind.
<b>Other adverse effects</b>	Not available

## Section 13 Disposal Considerations

<b>Waste From Residues / Unused Products</b>	Dispose in accordance with all federal, provincial, and local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Do not remove label, follow label warnings even after the container is empty. Empty containers should be recycled or disposed of at an approved waste handling facility.

## Section 14 Transport Information

<b>UN number</b>	UN3149
<b>UN proper shipping name and description</b>	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED
<b>Transport hazard class(es)</b>	5.1 (8)
<b>Packing group</b>	II
<b>Excepted quantities</b>	1 L
<b>Environmental hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

**Special precautions**

No special provisions

**Transport in bulk**

ERAP index: not available

MARPOL 73/78 and IBC Code:

Product name: Hydrogen peroxide solutions (over 8% but not over 60% by mass)

Pollution category: Y

Hazards: the product is included in the Code because of both its safety and pollution hazards.

Ship type: ship type 3

Tank type: integral gravity tank

Tank vents: controlled venting

Tank environmental control: no special requirements under this Code

Temperature classes no requirements

Electrical equipment: Apparatus group no requirements

Flash point non-flammable product

Gauging: closed gauging

Vapour detection: no special requirements under this Code

Fire protection: no special requirements under this Code

Emergency equipment no special requirements under this Code

Specific and operational requirements 15.5.2, 15.18, 15.19.6

**Additional information**

Secure containers (full or empty) during shipment and ensure all caps, valves, or closures are secured in the closed position.

**TDG PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

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## Section 15 Regulatory Information.

**NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

All components of this product appear on the domestic substance list.

Peracetic acid is listed in the National Pollutant Release Inventory (NPRI). Reporting threshold: 10 tonnes manufactured, processed or otherwise used.

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## Section 16 Other Information

**Date of latest revision: September 04, 2020**

**Note:** The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

**Attention: Receiver of the chemical goods / SDS coordinator**



As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

**References:**

- 1) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA
- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN