



To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States)  
The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team  
Zep Inc.

Date Prepared: 07/07/2020

SDS No: 23069

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Bio-Oxygen® Chem Decon- Part B

**GENERAL USE:** Proprietary Chemical and Biological Decontaminate Part B

**PRODUCT DESCRIPTION:** Neutralization of chemical and biological toxins when used with Bio-Oxygen® CHEM DECON PART A

**PRODUCT CODE:** 23069

### MANUFACTURER

Artemis Bio-Solutions, LLC  
14505 Torrey Chase Blvd Suite 205  
Houston, TX 77014, USA

**Emergency Contact:** INFOTRAC

**Emergency Phone:** 1(800) 535-5053

**Alternate Emergency Phone:** 1(352) 323-3500

**Customer Service :** 1 (630) 359-4090

**E-Mail:** info@artemisbiosolutions.com

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**AAPCC Poison Help:** (800) 424-9300

**CANUTEC (Canadian Transportation):** (613) 996-6666

**INFOTRAC (US Transportation) :** (800) 535-5053

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

#### Health:

Skin Irritation, Category 2

Eye Irritation, Category 1

#### Environmental:

Aquatic Toxicity, Category 0

### GHS LABEL



**SIGNAL WORD:** WARNING, DANGER

### HAZARD STATEMENTS

H318: Causes serious eye damage.

H315: Causes skin irritation.

### PRECAUTIONARY STATEMENTS

#### Prevention:

P264: Wash ... thoroughly after handling.

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

#### Response:

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363: Wash contaminated clothing before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

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**Storage:**

P402+P404: Store in a dry place. Store in a closed container.

**Disposal:**

P501: Disposal should be in accordance with applicable regional, national and local laws and regulations

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Hydrogen Peroxide	7 - 7.99	7722-84-1

COMMENTS: Formulation is based on weight % If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

**First Aid Measures**

**General Advice**

Provide this SDS to medical personnel for treatment.

**Eye Contact**

Immediately flush eyes with plenty of water for 15 minutes. Get medical attention, if irritation persists

**Skin Contact**

Remove contaminated clothing and shoes. Skin will turn white on contact. Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

**Ingestion**

Give victim a glass of water. Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects**

**Symptoms**

**EYES:** Adverse symptoms may include pain or irritation, watering, and redness. Can cause serious eye damage.

**SKIN:** Adverse symptoms may include irritation and redness.

**INGESTION:** Adverse symptoms may include nausea and vomiting.

**INHALATION:** Adverse symptoms may include respiratory tract irritation and coughing.

**Notes to Physician**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Unsuitable Extinguishing Media  
Specific Hazards Arising from the Chemical**

Not determined.

Product is not combustible or an explosive

**Protective equipment and precautions for firefighters**

Promptly remove all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Increases the flammability of combustible, organic and readily oxidizable materials.

**Fire Explosion**

Heating may cause an explosion.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Wear protective gloves/protective clothing/eye protection/face protection.

**Environmental Precautions** Avoid dispersal of spilled material and runoff and contact with waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers or waterways).  
**GENERAL PROCEDURES:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** **SMALL SPILL:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop if water-soluble. Alternately, or if water-soluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  
**LARGE SPILL:** Dike area to contain spill. Wash the spill site with water. See section 13, Disposal Considerations, for additional information.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Use only in a well ventilated area.  
Do not get in eyes. Do not swallow. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. See section 8, Exposure Controls and Personal Protection.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in accordance with local regulations. Store in a segregated and approved area in original container protected from sunlight in a dry, cool and well-ventilated and approved area away from incompatible materials. Keep container closed to prevent drying out. Move container away from oxidizing materials. Use appropriate containment to avoid environmental contamination.

**Incompatible Materials** STORAGE TEMPERATURE: Store away from heat sources and direct sunlight. Ideal storage temperature is 60-68F.  
Heavy metal ions, excessive alkalis, and combustible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Guidelines</b>	No exposure limits noted for ingredient(s). The following information is given as general guidance
<b>Appropriate engineering controls</b>	
<b>Engineering Controls</b>	Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only adequate ventilation. Local exhaust ventilation may be necessary for some operations. Refer to "Industrial Ventilation" by ACGIH for a manual of recommended practices.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/Face Protection</b>	<i>Distribution, Workplace and Household Settings:</i> No special protective equipment required. <i>Product Manufacturing Plant (needed at Product-Producing Plant ONLY):</i> Use appropriate eye protection,
<b>Hand Protection</b>	<i>Distribution, Workplace and Household Settings:</i> No special protective equipment required <i>Product Manufacturing Plant (needed at Product-Producing Plant ONLY):</i> Protective gloves
<b>Skin and Body Protection</b>	<i>Distribution, Workplace and Household Settings:</i> No special protective equipment required <i>Product Manufacturing Plant (needed at Product-Producing Plant ONLY):</i> Wear suitable protective clothing
<b>Respiratory Protection</b>	<i>Distribution, Workplace and Household Settings:</i> No special protective equipment required <i>Product Manufacturing Plant (needed at Product-Producing Plant ONLY):</i> In case of inadequate ventilation wear respiratory protection
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Clear to straw liquid
<b>Color</b>	Clear, colorless, transparent liquid
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not Determined
<b><u>Property</u></b>	<b><u>Values</u></b>
<b>pH</b>	2.5 to 3.5
<b>Melting Point/Freezing Point</b>	-2 °C / 25 °F
<b>Boiling Point/Boiling Range</b>	100 °C / 212 °F
<b>Flash Point</b>	Not Applicable
<b>Evaporation Rate</b>	1
<b>Flammability (Solid, Gas)</b>	Not Flammable
<b>Upper Flammability Limits</b>	N/A
<b>Lower Flammability Limit</b>	N/A
<b>Vapor Pressure</b>	20 mmHg@20°C (68 °F)
<b>Vapor Density</b>	1.08 lb/ft <sup>3</sup>
<b>Specific Gravity</b>	1.03 to 1.040 at 20°C (68°F)
<b>Density</b>	8.6 at 20°C (68°F)
<b>Water Solubility</b>	Completely soluble in water
<b>Solubility in other solvents</b>	N/A
<b>Partition Coefficient</b>	N/A
<b>Auto-ignition Temperature</b>	N/A
<b>Decomposition Temperature</b>	N/A
<b>Kinematic Viscosity</b>	N/A
<b>Dynamic Viscosity</b>	N/A
<b>Explosive Properties</b>	Not an explosive
<b>Oxidizing Properties</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Normally reactive if handled properly.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Keep out of reach of children.
<b>Incompatible Materials</b>	Heavy metal ions, excessive alkalis, and combustible materials.
<b>Hazardous Decomposition Products</b>	Oxygen which supports combustion.

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## 11. T-OXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

##### Eye Contact

Causes serious eye irritation.

##### Skin Contact

Contact of the skin with hydrogen peroxide may cause skin irritation.

##### Inhalation

Not applicable

##### Ingestion

Do not ingest.

### Information on physical, chemical and toxicological effects

#### Symptoms

Please see section 4 of this SDS for symptoms.

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

##### Carcinogenicity

Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

#### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrogen Peroxide		96-HOUR LC50: 16.4 mg/l- Pimephales promelas	48-HOUR EC50: 18-32 mg/l- Water Flea (Daphnia magna) Notes: Toxic to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

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## 15. REGULATORY INFORMATION

### International Inventories

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

Chemical Name	CAS
Hydrogen Peroxide	722-84-1

**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

#### US Federal Regulations

##### **SARA 313**

Not determined

#### US State Regulations

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Not determined

## 16. OTHER INFORMATION



NFPA

Issue Date:

05-Aug-2011

Revision Date:

08-July-2020

Revision Note:

New format

#### Disclaimer

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