

# **BIO-OXYGEN® CHEM DECON - PART B**

24 HR. EMERGENCY TELEPHONE NUMBERS

CANUTEC (Canadian Transportation):

**INFOTRAC (US Transportation)** :

AAPCC Poison Help:

SAFETY DATA SHEET | OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

### Date Prepared: 07/07/2020

SDS No: 23069

(800) 424-9300

(613) 996-6666

(800) 535-5053

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bio-Oxygen<sup>®</sup> 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<sup>®</sup> 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

### 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

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 b poison center or physician. Never give anything by mouth to an unconscious person.
Most importar	nt symptoms and effects
Symptoms	<b>EYES</b> : Adverse symptoms may include pain or irritation, watering, and redness. Can cause serious eye damage. <b>SKIN</b> : Adverse symptoms may include irritation and redness. <b>INGESTION</b> : Adverse symptoms may include nausea and vomiting.
	<b>INHALATION</b> : 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.



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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautio	Personal precautions, protective equipment and emergency procedures		
Personal Precautions	Wear protective gloves/protective clothing/eye protection/face protection.		
Environmental Precautions Methods and mate	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). <b>GENERAL PROCEDURES:</b> 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. <b>erial for containment and cleaning up</b>		
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for Clean-Up	<ul> <li>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.</li> <li>LARGE SPILL: Dike area to contain spill. Wash the spill site with water. See section 13, Disposal Considerations, for additional information.</li> </ul>		

# 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 sa	afe 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.	



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	No exposure limits noted for ingredient(s). The following information is given as general guidance			
Appropriate engineering controls				
Engineering	Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are			
Controls	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.			
Individual protection	n measures, such as personal protective equipment			
Eye/Face	Distribution, Workplace and Household Settings:			
Protection	No special protective equipment required.			
	Product Manufacturing Plant (needed at Product-Producing Plant ONLY):			
	Use appropriate eye protection,			
Hand Protection	Distribution, Workplace and Household Settings:			
	No special protective equipment required			
	Product Manufacturing Plant (needed at Product-Producing Plant ONLY):			
	Protective gloves			
	Distribution, Workplace and Household Settings:			
	No special protective equipment required			
Skin and Body	Product Manufacturing Plant (needed at Product-Producing Plant ONLY):			
Protection	Wear suitable protective clothing			
Respiratory	Distribution, Workplace and Household Settings:			
Protection	No special protective equipment required			
	Product Manufacturing Plant (needed at Product-Producing Plant ONLY):			
	In case of inadequate ventilation wear respiratory protection			
General Hygiene	Handle in accordance with good industrial hygiene and safety practice.			
Considerations				



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on ba Physical State Appearance Color Odor Odor Threshold <u>Property</u>	sic physical and chemical properties Liquid Clear to straw liquid Clear, colorless, transparent liquid Odorless Not Determined <u>Values</u>	
pH Melting Point/Free Boiling Point/Boil Flash Point Evaporation Rate Flammability (Soli Upper Flammabilit Lower Flammabilit Vapor Pressure Vapor Density Specific Gravity Density Water Solubility Solubility in other Partition Coefficie Auto-ignition Terr Decomposition Terr Decomposition Terr Chinematic Viscosity Explosive Propert Oxidizing Propert	ing Range id, Gas) ty Limits ty Limit solvents ent operature emperature ty v	1 to 2 -2 °C / 25 °F 100 °C / 212 °F Not Applicable 1 Not Flammable N/A N/A 20 mmHg@20°C (68 °F) 1.08 lb/ft <sup>3</sup> 1.03 to 1.040 at 20°C (68°F) 8.6 at 20°C (68°F) Completely soluble in water N/A N/A N/A N/A N/A N/A N/A N/A

# **10. STABILITY AND REACTIVITY**

Reactivity Chemical Stability Possibility of Hazardous Reactions Hazardous Polymerization Conditions to Avoid Incompatible Materials Hazardous Decomposition Products Normally reactive if handled properly. Stable under recommended storage conditions. None under normal processing. Hazardous polymerization does not occur. Keep out of reach of children. Heavy metal ions, excessive alkalis, and combustible materials. 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	
	Please see section 4 of this SDS for symptoms.
Symptoms	
Symptoms Delayed and immediate effects as well as chronic effects from sl	hort and long-term exposure Based on the information provided, this product does not contain
Symptoms Delayed and immediate effects as well as chronic effects from sl Carcinogenicity Numerical measures of toxicity	<b>nort and long-term exposure</b> Based on the information provided, this product does not contair any carcinogens or potential carcinogens as listed by OSHA, IARC

# 12. ECOLOGICAL INFORMATION

Ī	Chemical Name	Algae/aquatic	Fish	Crustacea
		plants		
ſ	Hydrogen Peroxide		96-HOUR LC50: 16.4 mg/l-	48-HOUR EC50: 18-32 mg/l- Water
			Pimephales promelas	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 Sectio	n 8(b) Inventory	
Chemical Name	CAS	
Hydrogen Peroxide	722-84-1	
DSL/NDSL - Canadian Domestic Substances List/Non-Don	nestic Substances List	
EINECS/ELINCS - European Inventory of Existing Chemica	I Substances/European List of Notified Chemical Substances	
ENCS - Japan Existing and New Chemical Substances		
<b>IECSC</b> - China Inventory of Existing Chemical Substances		
KECL - Korean Existing and Evaluated Chemical Substance	25	
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 chemic	als.	
U.S. State Right-to-Know Regulations		
Not determined		

### **16. OTHER INFORMATION**



Issue Date:
Revision Date:
<b>Revision Note:</b>
Disclaimer

05-Aug-2011 08-July-2020 New format

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**