

# **BIO-OXYGEN® CHEM DECON - PART A**

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: 230065

(800) 424-9300

(613) 996-6666

(800) 535-5053

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bio-Oxygen<sup>®</sup> Chem Decon- Part A GENERAL USE: Proprietary Chemical and Biological Decontaminate Part A PRODUCT DESCRIPTION: Neutralization of chemical and biological toxins when used with Bio-Oxygen<sup>®</sup> CHEM DECON PART B PRODUCT CODE: 23065

#### 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 2 Environmental: Aquatic Toxicity, Category 3

#### GHS LABEL



SIGNAL WORD: WARNING HAZARD STATEMENTS H319: Causes serious eye irritation. 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.



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

## Date Prepared: 07/07/2020

SDS No: 230065

#### 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
N-alkyl (c12-18)-n,n,-dimethyl-n-benzylammonium Chloride	3 - 4	68391-01-5
Quaternary Ammonium Cpds., N,n,n,n',n'- Pentamethyl-n'-		68607-29-4
tallow Alkyl Trimethylenedi-, Chlorides		

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	Extended contact may cause irritation or defatting. Flush skin with water for 15 minutes. Get medical attention for any irritation that persists
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	May cause a gastric disturbance. Drink lots of water or preferably, milk or juices. Do not induce vomiting. Get medical attention if effects persist.
Most important	symptoms and effects
Symptoms	EYES: Adverse symptoms may include pain or irritation, watering, and redness.
	SKIN: 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.



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

## Date Prepared: 07/07/2020

#### SDS No: 230065

#### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
Unsuitable Extinguishing Media	Not determined
Specific Hazards Arising from the Chemical	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.
Hazardous Decomposition Products	None known.

## 6. ACCIDENTAL RELEASE MEASURES

PersonalWear protective gloves/protective clothing/eye protection/face protectionPrecautions	

Environmental	Avoid dispersal of spilled material and runoff and contact with waterways, drains and sewers. Inform the
Precautions	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	<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 Use only in a well ventilated area.

HandlingDo not get in eyes. Do not swallow. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Wash<br/>thoroughly after handling. Keep container closed. Use with adequate ventilation. See section 8, Exposure Controls and<br/>Personal Protection.

#### Conditions for safe storage, including any incompatibilities

 Storage
 Store in accordance with local regulations. Store in a segregated and approved area in original container protected

 Conditions
 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.



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

## Date Prepared: 07/07/2020

SDS No: 230065

STORAGE TEMPERATURE: Store in a cool place below (140) F (60) C.IncompatibleNone known based on the information supplied.Materials

# 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 Controls	No exposure limits noted for ingredient(s).
Individual protection measures, s Eye/Face Protection	uch as personal protective equipment Distribution, Workplace and Household Settings: No special protective equipment required.
Hand Protection	Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Use appropriate eye 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:
Skin and Body Protection	No special protective equipment required Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Wear suitable protective clothing
Respiratory Protection	Distribution, Workplace and Household Settings: No special protective equipment required Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of inadequate ventilation wear respiratory protection
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physica	
Physical State Liqu	Jid
Appearance Cle	ar to straw liquid
Color Cle	ar to straw
Odor Slig	htly soapy odor
Odor Threshold Not	Determined
Property	Values
рН	11.0-13
Melting Point/Freezing Point	-1 °C / 28 °F
Boiling Point/Boiling Range	100 °C / 212 °F
Flash Point	Not Applicable
Evaporation Rate	1
Flammability (Solid, Gas)	Not Flammable
Upper Flammability Limits	N/A
Lower Flammability Limit	N/A
Vapor Pressure	20 mmHg@20°C (68 °F)
Vapor Density	1.08 lb/ft <sup>3</sup>
Specific Gravity	1 to 1.020 at 20°C (68°F)
Density	8.4 at 20°C (68°F)
Water Solubility	Completely soluble in water
Solubility in other solvents	N/A
Partition Coefficient	N/A
Auto-ignition Temperature	N/A



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

## Date Prepared: 07/07/2020

SDS No: 230065

Decomposition Temperature	N/A
Kinematic Viscosity	N/A
Dynamic Viscosity	N/A
Explosive Properties	Not an explosive
Oxidizing Properties	N/A

# **10. STABILITY AND REACTIVITY**

Reactivity	Normally reactive if handled properly
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Keep out of reach of children.
Incompatible Materials	Heavy metal ions, excessive alkalis, and combustible materials.
Hazardous Decomposition Products	Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials,
	and oxides of carbon and nitrogen.

# **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

Product Information	
Eye Contact	Causes serious eye irritation.
Skin Contact	The ingredients are deemed non-corrosive by DOT regulations. May cause redness and irritation to the skin.
Inhalation	Not applicable
Ingestion	Do not ingest.

#### **Component Information**

Chemical	Oral	Dermal LD50	Inhalation LC50
Name	LD50		
NA	NA	-	-
NA	NA	-	-

Information on physical, chemical and toxicological effectsSymptomsPlease 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



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

## Date Prepared: 07/07/2020

## SDS No: 230065

## **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence/Degradability Not determined.

Bioaccumulation Not determined. Mobility

Not determined Other Adverse Effects Not determined

# 13. DISPOSAL CONSIDERATIONS

Waste Treatment Method	S
Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **14. TRANSPORT INFORMATION**

NotePlease see current shipping paper for most up to date shipping information, including exemptions and special circumstances.DOTNot regulatedIATANot regulatedIMDGNot regulated



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

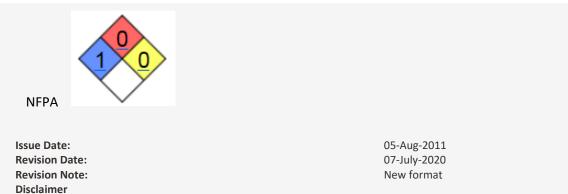
## Date Prepared: 07/07/2020

SDS No: 230065

## **15. REGULATORY INFORMATION**

Chemical Name	CAS
N-alkyl (c12-18)-n,n,-dimethyl-n-benzylammonium Chloride	68391-01-5
Quaternary Ammonium Cpds., N,n,n,n',n'- Pentamethyl-n'-tallow Alkyl Trimethylenedi-, Chlorides	68607-29-4
DSL/NDSL - Canadian Domestic Substances List/Non-Dor	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**



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