

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME** Bio-Oxygen<sup>®</sup> Carpet 50/50 Mixture (Part A&B)  
**GENERAL USE:** Hygienically Cleans Carpet  
**PRODUCT DESCRIPTION:** Mixture of cationic detergents and carbonates  
**PRODUCT CODE:** 23082, 23082-QT, 23082-G, 23086, 23086-QT, 23086-G  
**ALTERNATE TRADE NAME(S):** Bio-Oxygen Carpet

### 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 2

**Environmental:**

Aquatic Toxicity, Category 3

### GHS LABEL



**SIGNAL WORD: DANGER**

### 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.

**Storage:**

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

**Disposal:**

P501: Dispose of contents and container in accordance with local regulations.

P202: Do not handle until all safety precautions have been read and understood.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
N-alkyl (c12-18)-n,n,-dimethyl-n-benzylammonium Chloride	<3	68391-01-5
Hydrogen Peroxide	7 – 7.99	7722-84-1
Potassium Carbonate	< 2	584-08-7
Alcohols,c10-14, Ethoxylated	< 7	66455-15-0

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** Immediate medical attention is required.
- 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.
- Self-protection of the first aider** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

- Eyes** Adverse symptoms may include pain or irritation, watering, and redness.
- 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.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Class</b>	Not applicable
<b>General Hazard</b>	Product is not combustible or an explosive.
<b>Suitable Extinguishing Media</b>	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material
<b>Fire Fighting Procedures</b>	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.
<b>Protective equipment and precautions for firefighters</b>	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.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Small Spill</b>	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.
<b>Large Spill</b>	Dike area to contain spill. Wash the spill site with water. See section 13, Disposal Considerations, for additional information.
<b>Environmental Precautions</b>	WATER SPILL: 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>Special Protective Equipment</b>	Wear protective gloves/protective clothing/eye protection/face protection.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>General Procedures</b>	Use only in a well ventilated area.
<b>Advice on Safe Handling</b>	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

<b>Storage Conditions</b>	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.
<b>Storage Temperature</b>	Store in a cool place below (140) F (60) C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<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.
<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>
<b>General Hygiene Considerations</b>	In case of inadequate ventilation wear respiratory protection 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 liquid
<b>Color</b>	Clear to straw color
<b>Odor</b>	Slightly soapy odor
<b>Odor Threshold</b>	Not Determined
<b>Property</b>	<b>Values</b>
<b>pH</b>	1 - 2
<b>Melting Point/Freezing Point</b>	0°C (32°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>	No Information available
<b>Lower Flammability Limit</b>	No Information available
<b>Vapor Pressure</b>	20 mm Hg at 20°C (68°F)
<b>Vapor Density</b>	1.08 lb/ft <sup>3</sup>
<b>Specific Gravity</b>	1.04 to 1.060 at 20°C (68°F)
<b>Density</b>	~ 8.8 at 20°C (68°F)
<b>Water Solubility</b>	Completely soluble
<b>Partition Coefficient</b>	No Information available
<b>Auto-ignition Temperature</b>	No Information available
<b>Viscosity</b>	Not yet Determined
<b>VOC Content %</b>	None
<b>Percent Volatile</b>	0

## 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>	Anionic detergents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials, and oxides of carbon and nitrogen.

## 11. TOXICOLOGICAL INFORMATION

### CARCINOGENICITY

**IARC:** Group 3 IARC components are not classified as a human carcinogen.

**NTP:** Not classified as a human carcinogen.

**OSHA:** Not classified as a human carcinogen. Information on likely routes of exposure

## 12. ECOLOGICAL INFORMATION

**Environmental Data:** No environmental data has been collected for this product.

**Ecotoxicological Information:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Bioaccumulation/Accumulation:** Not yet Determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

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

**For Large Spills:** Do not allow product to reach sewage system.

**Product Disposal:** Disposal must be made according to official regulations.

**Empty Container** Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

## 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

**OTHER SHIPPING INFORMATION:** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

## 15. REGULATORY INFORMATION

### US Federal Regulations

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

Chemical Name	CAS
N-alkyl (c12-18)-n,n,-dimethyl-n-benzylammonium Chloride	68391-01-5
Hydrogen Peroxide	7722-84-1
Potassium Carbonate	584-08-7
Alcohols,c10-14, Ethoxylated	66455-15-0

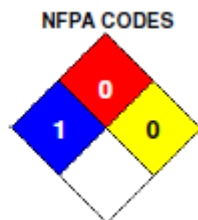
### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**S State Regulations:** Not yet Determined

## 16. OTHER INFORMATION

HMIS RATING	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	A



Prepared by"

Bob Benson

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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