

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bio-Oxygen® Laundry- Part A

GENERAL USE: Cleaning Compound

PRODUCT DESCRIPTION: Hygienically Laundry when used with Bio-Oxygen® Laundry- Part B

PRODUCT CODE: 23050

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: 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.

Storage:

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

Disposal:

P501: Dispose of contents/container to an approved waste disposal plant

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'-tallow Alkyl Trimethylenedi-, Chlorides	1 -2	68607-29-4

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 deffating. 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. 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.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
Fire Fighting Procedures	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.
Protective equipment and precautions for firefighters	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	Product is not combustible or an explosive.
Hazardous Decomposition Products	Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials, and oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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.
Environmental Precautions	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).
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.
Special Protective Equipment	Wear protective gloves/protective clothing/eye protection/face protection.

7. HANDLING AND STORAGE

Precautions for safe handling

General Procedures	Use only in a well ventilated area.
Advice on Safe Handling	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.
Storage Temperature	Store in a cool place below (140) F (60) C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	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.
Individual protection measures, such as personal protective equipment	
Eye/Face Protection	<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,
Hand Protection	<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
Skin and Body Protection	<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
Respiratory Protection	<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
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear to straw liquid
Color	Clear to straw
Odor	Slight soapy odor
Odor Threshold	Not Determined
Property	Values
pH	11 – 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	No Information available
Lower Flammability Limit	No Information available
Vapor Pressure	20 mm Hg at 20°C (68°F)
Vapor Density	1.08 lb/ft ³
Specific Gravity	1.0 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	No Information available
Auto-ignition Temperature	No Information available
Viscosity	Not yet Determined
VOC Content %	None
Percent Volatile	0

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	None known based on the information supplied.
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

Product Information

Harmful by inhalation, ingestion, in contact with eyes and skin.

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.

CARCINOGENICITY

IARC: 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

Aquatic Toxicity (Acute)

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.

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

15. REGULATORY INFORMATION

US Federal Regulations

311/312 HAZARD CATEGORIES: Not hazardous

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.

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
Quaternary Ammonium Cpd., N,n,n,n',n'-Pentamethyl-n'-tallow Alkyl Trimethylenedi-, Chlorides	68607-29-4

TSCA STATUS: Some ingredients are listed on the TSCA chemical substance inventory.

US State Regulations: Not yet Determined

16. OTHER INFORMATION



NFPA

HMIS Rating

Health	1
Flammability	0
Physical Hazard	0
Personal protection	A

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 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