

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Artemis Full Spectrum Germicidal Wipes
GENERAL USE: Premoistened wipe
PRODUCT DESCRIPTION: Premoistened wipe
PRODUCT CODE: 1616

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:

Eye Irrit. H319

GHS LABEL



SIGNAL WORD: Warning

HAZARD STATEMENTS Causes serious eye irritation

PRECAUTIONARY STATEMENTS

Wash thoroughly after handling

Wear eye protection, protective clothing, protective gloves

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether.	7-13	112-34-5
tetrasodium ethylenediaminetetracetate	1-5	64-02-8
trisodium nitrilotriacetate.	0.01-1	5064-31-3

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

- General Advice** If you feel unwell, seek medical advice (show the label where possible).
- Eye Contact** Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue Rinsing.
- Skin Contact** Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- Inhalation** Remove to fresh air and keep at rest in a position comfortable for breathing.
- Ingestion** Rinse mouth with water. Do NOT induce vomiting. Consult a doctor/medical service if you feel unwell. Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Most important symptoms and effects

Any additional important symptoms and effects are described in Section 11: Toxicology

Indication of any immediate medical attention and special treatment needed

- Note to physicians** Symptoms/injuries : Causes severe skin burns and eye damage. May cause cancer.
- Inhalation : None under normal use.
- Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin. Repeated exposure may cause skin dryness or cracking.
- Symptoms/injuries after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
- Symptoms/injuries after ingestion : May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea. Diarrhea. Vomiting.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable Extinguishing Media** Not applicable.
- Specific Hazards Arising from the Chemical** Upon combustion: CO and CO₂ are formed.
- Protective equipment and precautions for firefighters** Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Isolate from fire, if possible, without unnecessary risk.

For non-emergency personnel

Protective equipment : Protective goggles. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.

Ventilate spillage area.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate

Environmental Precautions Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains

Methods and material for containment and cleaning up

Methods for Containment Contain released substance, pump into suitable containers.

Methods for Clean-Up This material and its container must be disposed of in a safe way, and as per local legislation.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Comply with applicable regulations.

Storage conditions : Keep container closed when not in use.

Storage area : Meet the legal requirements. Store in a cool area. Store in a well-ventilated place.

Special rules on packaging : meet the legal requirements

Incompatible Materials No Additional Information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
ACGIH TWA (ppm)	10 ppm

Appropriate engineering controls

Engineering Controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles. Face protection shield

Skin and Body Protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

General Hygiene Considerations When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Solid

Appearance White wipe impregnated with a colorless liquid.

Odor Mild Odor.

Odor Threshold Not Determined

<u>Property</u>	<u>Values</u>
pH	11.5 -12.5 - Tested using the liquid component of the towelette
Melting Point/Freezing Point	No Information available
Boiling Point/Boiling Range	No Information available
Flash Point	> 200 °F - Closed Cup (Liquid) - Tested using the liquid component of the towelette.
Evaporation Rate	No Information available
Flammability (Solid, Gas)	No Information available
Upper Flammability Limits	No Information available
Lower Flammability Limit	No Information available
Vapor Pressure	No Information available
Vapor Density	No Information available
Specific Gravity	1.01 g/ml -Tested using the liquid component of the towelette.
Water Solubility	Liquid component is soluble in water.
Solubility in other solvents	N/A
Partition Coefficient	No Information available
Auto-ignition Temperature	No Information available
Viscosity	No Information available
VOC Content %	< 0.5 % -Tested using the liquid component of the towelette.

10. STABILITY AND REACTIVITY

Reactivity

Upon combustion CO and CO2 are formed.

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

No additional Information available.

Incompatible Materials

Strong acids. Oxidizing agents.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Acute toxicity : Not classified

tetrasodium ethylenediaminetetracetate (64-02-8)	
LD50 oral rat	> 2000 mg/kg (Rat)
ATE CLP (oral)	500.000 mg/kg body weight
trisodium nitrilotriacetate (5064-31-3)	
LD50 oral rat	1740 mg/kg rat, male and female
LD50 dermal rabbit	> 2000 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight

Eye Contact

Not classified

Skin Contact

Causes severe skin burns and eye damage.

Inhalation

Not classified

Ingestion

Not classified

Carcinogenicity

Suspected of causing cancer.

trisodium nitrilotriacetate (5064-31-3)

IARC group 2B - Possibly Carcinogenic to Humans

Reproductive toxicity

Not classified

Specific target organ toxicity (single exposure)

Not classified

Specific target organ toxicity (repeated exposure)

Not classified

Aspiration hazard

Not classified

Symptoms/injuries after inhalation : None under normal use.

Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion : May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea. Diarrhea. Vomiting.

12. ECOLOGICAL INFORMATION

Ecotoxicity

tetrasodium ethylenediaminetetracetate (64-02-8)	
LC50 fish 1	121 mg/l (96 h; Lepomis macrochirus; Soft water)
EC50 Daphnia 1	625 mg/l (24 h; Daphnia magna)
LC50 fish 2	374 - 792 mg/l (96 h; Lepomis macrochirus; pH > 7)
Threshold limit algae 1	> 100 mg/l (72 h; Scenedesmus subspicatus; Growth)
LC50 fish 1	121 mg/l (96 h; Lepomis macrochirus; Soft water)

Persistence/Degradability

tetrasodium ethylenediaminetetracetate (64-02-8)	
LC50 fish 1	114 mg/l Pimephales promelas (fathead minnow); Test Type: flow-through test
EC50 Daphnia 1	> 100 mg/l Daphnia magna (Water flea); Test Type: static test
ErC50 (algae)	91.5 mg/l Desmodesmus subspicatus (green algae); Exposure time: 72 h; Test Type: static test; Method: OECD Test Guideline 201

Bioaccumulation

tetrasodium ethylenediaminetetracetate (64-02-8)	
Log Pow	-2.6
Bioaccumulative potential	Bioaccumulation: not applicable.

Mobility

No Information available.

Other Adverse Effects

No Information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes 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



Artemis Full Spectrum Germicidal Wipes

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

Date Prepared: 07/13/2020

SDS No: 1616

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL/NDSL Complies

Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

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

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	(CAS No) 112-34-5	7-13
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SARA 311/312 Hazard Categories

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number 1839-83-87881

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. See the product label for the FIFRA hazard information as required on the pesticide label.

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

16. OTHER INFORMATION

NFPA	Health hazards 2	Flammability 1	Instability 0
HMIS	Health hazards 0	Flammability 0	Physical hazards 0

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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