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1 IDENTIFICATION

Product Name Stop the Bites® - EX!
Product Code 1647581

Recommended Use This product is a water-based insecticide for outdoor use.
Restrictions on Use Do not apply to bodies of water.

Supplier Identification Arkion Life Sciences, LLC
Address 551 Mews Drive, Suite J
New Castle, DE 19720 - USA
Telephone Phone: 302-504-7400
Fax: 302-655-3603
E-mail info@arkionls.com
Website www.arkionls.com

National Poison Control: 800-222-1222
INFOTRAC: 800-535-5053

2 HAZARDS IDENTIFICATION

Classification:

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 2

Appearance: Cloudy **Physical State:** Liquid Emulsion **Odor:** Woody

GHS Label Elements, including Precautionary Statements:

Signal Word: Danger

Hazard Statements:

Causes serious eye damage and skin irritation. May cause damage to organs and allergic skin reaction.



Precautionary Statements:

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Do not breathe fumes/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wear protective gloves and eye/face protection.

Response: Specific treatment (see supplemental first aid instructions in Section 4). If exposed or concerned: Call a poison center or doctor. **If in Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. **If on Skin:** Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs, get medical advice/attention.

Storage: Store locked up.

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

Other information: Very toxic to aquatic life with long lasting effects.

Unknown Acute Toxicity: 41% of the mixture consists of ingredient(s) of unknown toxicity
 23% of the mixture consists of ingredient(s) of unknown acute oral toxicity
 33% of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 41% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas/vapor/dust/mist)

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance: Not Applicable.

Mixture:

Chemical Name	CAS Number	Weight-%	Hazardous Material Information Review Act Registry Number (HMIRA Registry Number)	Date HMIRA Filed and Date Exemption Granted (if applicable)
Glyceryl stearate	31566-31-1	Trade Secret	-	-
Castor oil	8001-79-4	10	-	-
Geraniol	106-24-1	8	-	-
Oils, rosemary	8000-25-7	7	-	-
Potassium sorbate	24634-61-5	Trade Secret	-	-

4 FIRST AID MEASURES

Description of First Aid Measures:

General Advice Immediate medical attention is required. Show this SDS to the doctor in attendance.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur. If exposed or concerned, get medical advice/attention.

Eye Contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. If symptoms persist, call a physician.

Ingestion Clean mouth with water and then drink plenty of water. Never give anything by mouth to an unconscious person. **Do not** induce vomiting. Call a physician.

Self-protection of the First Aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see Section 8).

Most Important Symptoms and Effects, Both Acute and Delayed: Burning sensation, itching, rashes, hives.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Note to Physicians: May cause sensitization in susceptible persons. Treat symptomatically.

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire **CAUTION:** Use of water spray when fighting fire may be inefficient.

Unsuitable Extinguishing Media Do not scatter spilled material with high pressure water streams.

Specific Hazards Arising from the Chemical Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous Combustion Products Carbon oxides.

Explosion Data:

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special Protective Equipment for Firefighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

Methods and Materials for Containment and Cleaning Up:

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7 HANDLING AND STORAGE**Precautions for Safe Handling:****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.

Conditions for Safe Storage, including any Incompatibilities:**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION**Control Parameters:**

Exposure Limits: The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this SDS is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed below.

Chemical Name	ACGIH TLV		OSHA PEL	NIOSH IDLH
Glyceryl stearate 31566-31-1	TWA: 10 mg/m ³ inhalable particulate matter except stearates of toxic metals TWA: 3 mg/m ³ respirable particulate matter except stearates of toxic metals		-	-
Chemical Name	Alberta	British Columbia	Ontario TWA EV	Quebec
Glyceryl stearate 31566-31-1	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³ TWA: 3 mg/m ³	-

Appropriate Engineering Controls:**Engineering Controls**

Showers, eyewash stations, ventilation systems.

Individual Protection Measures, such as Personal Protective Equipment:**Eye/face Protection**

Wear tight sealing safety goggles.

Hand Protection

Wear suitable, impervious gloves.

Skin and Body Protection

Wear suitable protective clothing including long-sleeved clothing.

Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General Hygiene Considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

9 PHYSICAL AND CHEMICAL PROPERTIES**Information on Basic Physical and Chemical Properties:**

Auto-ignition temperature:	N/A	Partition coefficient: n-octanol/water:	N/D
Color:	Light amber	pH:	6.0
Decomposition temperature:	N/D	Physical state:	Liquid emulsion
Evaporation rate:	N/D	Relative density:	1 g/mL
Flammability (solid, gas):	N/A	Solubility(ies):	Miscible in water
Flash point:	N/A	Upper/lower explosive limits:	N/D
Freezing point:	N/D	Upper/lower flammability limits:	N/D
Initial boiling point and range:	N/D	Vapor pressure:	N/A
Melting point:	N/A	Viscosity:	N/D
Odor:	Woody	N/A = Not Applicable	N/D = Not Determined

10 STABILITY AND REACTIVITY**Reactivity**

No information available.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

None known based on information supplied.

Incompatible Materials

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous Decomposition Products

Carbon oxides.

11 TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure:****Product Information:**

Inhalation	Specific test data for the substance or mixture is not available. Based on components, may cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Based on components, severely irritating to eyes; causes serious eye damage; may cause burns; and may cause irreversible eye damage.
Skin contact	Specific test data for the substance or mixture is not available. Based on components, may cause sensitization by skin contact; repeated or prolonged skin contact may cause allergic reactions with susceptible persons; and causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Based on components, ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Symptoms Redness, burning. May cause blindness, itching, rashes, hives. May cause redness and tearing of the eyes.

Numerical Measures of Toxicity:

Acute Toxicity: The following value is calculated based on Chapter 3.1 of the GHS document:

ATEmix (oral) 16,887.00 mg/kg

Unknown Acute Toxicity 41 % of the mixture consists of ingredient(s) of unknown toxicity

23 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

33 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

41 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas/vapor/dust/mist)

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Geraniol	= 3600 mg/kg (rat)	> 5 g/kg (rabbit)	-
Oils, rosemary	= 5 g/kg (rat)	-	-
Potassium sorbate	= 3200 mg/kg (rat)	-	-

Delayed and Immediate Effects as well as Chronic Effects from Short- and Long-Term Exposure:

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	Based on the classification criteria of the GHS as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure (STOT SE). May cause damage to organs.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12 ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Geraniol	No data available	96h LC50 = 22 mg/L (<i>Danio rerio</i>)	No data available	No data available
Potassium sorbate	No data available	96h LC50 = 1250 mg/L (<i>Brachydanio rerio</i>)	No data available	48h EC50 = 750 mg/L (<i>Daphnia magna</i>)

Persistence and Degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.
Other Adverse Effects	No information available.

13 DISPOSAL CONSIDERATIONS**Waste Treatment Methods:**

Waste from Residues/Unused Products Dispose of in accordance with local regulations and environmental legislation.

Contaminated Packaging
California Waste Code

Do not reuse empty containers.
331

14 TRANSPORT INFORMATION

DOT	Not Regulated
Proper Shipping Name	Not Regulated
Hazard Class	Not Applicable
TDG	Not Applicable
MEX	Not Applicable
ICAO	Not Applicable
IATA	Not Applicable
Proper Shipping Name	Not Regulated
Hazard Class	Not Applicable
IMDG/IMO	Not Applicable
Hazard Class	Not Applicable
RID	Not Applicable
ADR	Not Applicable
ADN	Not Applicable

15 REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Mixture:

International Regulations:

The Montreal Protocol on Substances that Deplete the Ozone Layer	Not Applicable
The Stockholm Convention on Persistent Organic Pollutants	Not Applicable
The Rotterdam Convention	Not Applicable

International Inventories:

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AICS	- Australian Inventory of Chemical Substances

US Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). 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.

SARA 311/312 Hazard Categories:

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations: This product does not contain any substances above the threshold limits that are regulated by states' right-to-know.



16	OTHER INFORMATION			
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NFPA	Health Hazards	3	Flammability	0	Instability	0	Physical and Chemical Properties	-
HMS	Health Hazards	3	Flammability	0	Physical Hazards	0	Personal Protection	X

Prepared By Product Stewardship
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Disclaimer

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