

# EpiShield™

## Safety Data Sheet

### 1. Identification

<b>Product Identifier</b>	EpiShield
<b>Product Synonyms</b>	None
<b>Recommended uses and restrictions</b>	Minimum risk insecticide and miticide for horticulture/ agriculture

#### Supplier Information

<b>Contact:</b>	BioWorks, Inc. 100 Rawson Rd., Ste. 205 Victor, NY 14564
Telephone	+1-800-877-9443
Website	bioworksinc.com

<b>Emergency telephone number</b>	CHEMTREC    1-800-424-9300
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### 2. Hazards Identification

<b>Hazard Classification</b>	Not classified; all hazards are not otherwise classified (HNOC)
<b>OSHA Defined Hazards</b>	Not Classified
<b>Hazards Not Otherwise Classified</b>	Direct contact with eye may cause irritation. Prolonged inhalation of spray mist or droplets may cause respiratory irritation. May cause skin irritation upon direct contact.

#### Label Elements

<b>Signal Word</b>	CAUTION
<b>Precautionary Statement</b>	
<b>Prevention</b>	Wear eye/face protection and use in well ventilated areas. Avoid breathing spray mist or droplets and wash thoroughly after use.
<b>Response</b>	If in eye: Rinse carefully with plenty of water. If inhaled: Move to a well-ventilated area to allow fresh air breathing. If on skin: Rinse thoroughly with plenty of water.
<b>Storage</b>	Keep in original closed container at RT (20C°).
<b>Disposal</b>	Follow your local waste disposal agency instructions for any leftover product and the container.

### 3. Composition/information on ingredients

#### Mixture

Ingredient	CAS Number	Percentage
Peppermint oil	8006-90-4	15
Clove oil	800-34-8	10
Sodium lauryl sulfate	151-21-3	3
Inert 1	Trade Secret	0-30*
Inert 2	Trade Secret	0-30*
Inert 3	Trade Secret	0-30*
Inert 4	Trade Secret	0-30*
Inert 5	Trade Secret	0-30*

#### Composition Comments

US GHS: \* Designates that a specific chemical identity and/or exact percentage of the composition has been withheld as a trade secret according to paragraph (i) of § 1910-1200.

### 4. First-Aid Measures

#### INGESTION

Do not induce vomiting. Drink plenty of water and get medical attention.

#### INHALATION

Move the affected person immediately to a well-ventilated area with fresh air and get medical attention.

#### SKIN CONTACT

Wash the area thoroughly with soap and water.

#### EYE CONTACT

Immediately wash with plenty of water for 15 minutes. In all cases, contact a doctor or poison control office if irritation or symptoms persist. Ensure that medical personnel are aware of materials involved and take precautions accordingly.

### 5. Fire-fighting measures

#### Suitable extinguishing media

#### Special Protective Equipment and Precautions for Firefighters

#### General Information

Use extinguishing media appropriate for fire and surroundings such as carbon dioxide, water or foam. Full protective clothing and breathing apparatus should be worn in case of fire. In case of fire, avoid contact with product mist and thermal decomposition products.

## 6. Accidental release measures

<b>Personal Precautions</b>	Keep unnecessary personnel away from upwind of spill or leak. Eliminate all ignition sources and ventilate accidental release area.
<b>Protective Equipment</b>	Wear appropriate protective equipment such as safety glasses, face shield, rubber gloves, long-sleeved shirt, long pants, socks and safety boots. A self-contained breathing apparatus may be used in case of inadequate ventilation.
<b>Emergency Procedures</b>	First responders and cleanup team should wear protective equipment, secure the accidental release areas and call local authorities if significant spillage can not be contained.
<b>Containment Procedures</b>	Keep combustible materials away from spill. Immediately contain spills with absorbents to prevent entry into drainage or bodies of water.
<b>Cleanup Procedures</b>	<b>Large spills:</b> Stop the flow of material if it can be done without risks. Use absorbents to soak up the spilled material and transfer to suitable containers for disposal. Clean the area with water and absorbents. Dispose used absorbents according to local regulations. <b>Small spills:</b> Soak up the spill with appropriate absorbents and dispose according to local regulations. Clean the area with water and cleaning towels.

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## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Observe good industrial hygiene and safety procedures. Keep the containers closed when not in use. After exposure, wash hands with soap and plenty of water.
<b>Storage Recommendations</b>	Keep in original closed container at RT (20C°). Avoid direct sun light or heating. Keep away from children.

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## 8. Exposure controls/personal protection

<b>Occupational Exposure Limits</b>	There are no available PEL, TLV or other recommended exposure limits for this mixture.
<b>Biological Limit Values</b>	No biological exposure limits noted.
<b>Appropriate Engineering Controls</b>	Use local exhaust ventilations when using this product in enclosed spaces.
<b>Personal Protection</b>	
<b>Eye:</b>	Wear safety glasses/goggles with side shields.
<b>Skin:</b>	Wear appropriate protective clothing and chemical resistant gloves.

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**Inhalation:** Respiratory protection is not normally needed except when engineering controls may not provide adequate ventilation. Use an appropriate respirator when needed.

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## 9. Physical and chemical properties

<b>Appearance:</b>	Liquid
<b>Physical state:</b>	Liquid
<b>Color:</b>	Pale yellow
<b>Odor:</b>	Slightly minty and clove
<b>Melting/freezing point:</b>	N/D
<b>Auto-ignition temperature:</b>	N/A
<b>Decomposition temperature:</b>	N/D
<b>Evaporation rate:</b>	N/D
<b>Flammability (solid, gas):</b>	N/A
<b>Flash point:</b>	N/A
<b>Initial boiling point and range:</b>	N/D
<b>Partition coefficient (n-octanol/water):</b>	N/D
<b>pH:</b>	N/D
<b>Relative density:</b>	N/D
<b>Solubility(ies):</b>	Water
<b>Upper/lower explosive limits:</b>	N/A
<b>Upper/lower flammability limits:</b>	N/A
<b>Vapor pressure:</b>	N/D
<b>Viscosity:</b>	N/D

N/A = Not Applicable  
N/D = Not Determined

## 10. Stability and reactivity

<b>Reactivity</b>	No dangerous reaction under normal conditions of use, storage and transport.
<b>Chemical Stability</b>	Mixture is stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization does not occur.
<b>Hazardous Decomposition Products</b>	No known hazardous decomposition products.
<b>Conditions to avoid</b>	Avoid exposure to extreme high or low temperatures.

## 11. Toxicological information

### Information on Likely Routes of Exposure

**Inhalation:** Not available

<b>Eye contact:</b>	Not available
<b>Skin contact:</b>	Not available
<b>Ingestion:</b>	Not available
<b>Symptoms Related to the Physical, Chemical and Toxicological Characteristics</b>	Direct contact with eyes may cause mild temporary irritation
<b>Acute Toxicity</b>	Not available
<b>Carcinogenicity:</b>	Not available
<b>US. National Toxicology Program (NTP) Report of Carcinogenesis</b>	Not listed
<b>IARC Monographs Evaluation of Carcinogenicity</b>	Not listed
<b>OSHA Specifically Regulated Substances</b>	Not regulated
<b>Reproductive Toxicity</b>	Not available
<b>Specific Target Organ Toxicity – Single Exposure</b>	Not classified
<b>Specific Target Organ Toxicity – Repeated Exposure</b>	Not classified
<b>Aspiration Hazard</b>	Not available

## 12. Ecological information (non-mandatory)

<b>Ecotoxicity</b>	No ecotoxicity data available for this mixture.
<b>Persistence Degradability</b>	Not available
<b>Bioaccumulative Potential</b>	Not available
<b>Mobility in Soil</b>	Not available
<b>Other Adverse Effects</b>	Not available

## 13. Disposal considerations (non-mandatory)

Do not contaminate water or food. Do not refill or reuse containers. Recycle the containers if appropriate. Dispose or incinerate according to your procedures. Follow your local waste disposal agency instructions for any leftover product in the container. Also refer to section 8 for appropriate personal protective equipment.

## 14. Transport information (non-mandatory)

This mixture is not regulated for transport.

<b>US DOT name:</b>	Not regulated
<b>IATA name:</b>	Not regulated
<b>IMDG name:</b>	Not regulated
<b>TSC name:</b>	Not regulated

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## **15. Regulatory information (non-mandatory)**

BioWorks Inc. represents that this product qualifies for exemption from the United States Environmental Protection Agency (EPA) under FIFRA Section 25(b).  
Not registered or intended for sale in Canada.

## **16. Other information**

The information in this SDS has been obtained from current sources and is correct to the best of our knowledge, information and belief at the date of its publication. The information has been designed only as a guidance for use, safe handling, storage, transport, disposal and release and is not to be considered a warranty or quality specification. Despite that all efforts have been deployed to ensure full disclosure but in some cases no data are available which is declared.

### **Version History:**

- Created April 28, 2023
- 1.1, dated 9/5/2023
  - Revised Section 1; Identifier and Description