

## 1. IDENTIFICATION

**Product identifier**

**Product Name** ECO-1 Garden Spray Concentrate

**Other means of identification**

**SDS #** ARBOR-009

**Product Code** 8 fl. oz. 040-7310, 32 fl. oz. 040-7320

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Insecticide. Fungicide. Miticide.

**Details of the supplier of the safety data sheet**

**Supplier Address**

Arborjet, Inc.  
99 Blueberry Hill Road  
Woburn, MA 01801  
Phone: 1-781-935-9070  
www.arborjet.com

**Emergency telephone number**

**Emergency Telephone** VelocityEHS 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

**Appearance** Yellow-white liquid                      **Physical state** Liquid                      **Odor** Minty Botanical

**Classification**

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

**Other hazards**

Toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name       | CAS No   | Weight-% |
|---------------------|----------|----------|
| Isopropyl Myristate | 110-27-0 | <3       |

\*\*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

**Description of first aid measures**

**Eye Contact** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Check for and remove contact lenses. Get medical attention if irritation occurs.

|                     |                                                                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin Contact</b> | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Clean shoes thoroughly before reuse. Wash contaminated clothing before reuse. Get medical attention.                                     |
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.                                                                                                  |
| <b>Ingestion</b>    | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |

**Most important symptoms and effects, both acute and delayed**

|                 |                                                      |
|-----------------|------------------------------------------------------|
| <b>Symptoms</b> | May cause eye irritation. May cause skin irritation. |
|-----------------|------------------------------------------------------|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Foam.

**Unsuitable Extinguishing Media** Do not use water jet.

**Specific Hazards Arising from the Chemical**

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

**Protective equipment and precautions for firefighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For Emergency Responders** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**Environmental precautions**

**Environmental precautions** 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). See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

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

**Methods for Clean-Up**

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling****Advice on Safe Handling**

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Incompatible Materials**

Potassium permanganate solution.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls****Engineering Controls**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side shields.

**Skin and Body Protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory Protection** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**General Hygiene Considerations** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                     |                       |                 |
|-----------------------|---------------------|-----------------------|-----------------|
| <b>Physical state</b> | Liquid              | <b>Odor</b>           | Minty Botanical |
| <b>Appearance</b>     | Yellow-white liquid | <b>Odor Threshold</b> | Not determined  |
| <b>Color</b>          | Yellow-white        |                       |                 |

| <u>Property</u>                                | <u>Values</u>                        | <u>Remarks • Method</u> |
|------------------------------------------------|--------------------------------------|-------------------------|
| <b>pH</b>                                      | 8.5                                  |                         |
| <b>Melting point / freezing point</b>          | No data available                    |                         |
| <b>Initial boiling point and boiling range</b> | No data available                    |                         |
| <b>Flash point</b>                             | >95 °C / >203 °F                     | Cleveland Open Cup      |
| <b>Evaporation Rate</b>                        | Not determined                       |                         |
| <b>Flammability (Solid, Gas)</b>               | Liquid-Not applicable                |                         |
| <b>Flammability Limit in Air</b>               |                                      |                         |
| <b>Upper flammability or explosive limits</b>  | No data available                    |                         |
| <b>Lower flammability or explosive limits</b>  | No data available                    |                         |
| <b>Vapor Pressure</b>                          | Not determined                       |                         |
| <b>Vapor Density</b>                           | No data available                    |                         |
| <b>Relative Density</b>                        | 0.986 @ 18.3°C (65°F)                |                         |
| <b>Water Solubility</b>                        | Not determined                       |                         |
| <b>Solubility in other solvents</b>            | Not determined                       |                         |
| <b>Partition Coefficient</b>                   | Not determined                       |                         |
| <b>Autoignition temperature</b>                | No data available                    |                         |
| <b>Hyphen</b>                                  | Not determined                       |                         |
| <b>Kinematic viscosity</b>                     | 0.4357 cm <sup>2</sup> /s (43.57cSt) |                         |
| <b>Dynamic Viscosity</b>                       | Not determined                       |                         |
| <b>Explosive Properties</b>                    | Not determined                       |                         |
| <b>Oxidizing Properties</b>                    | Not determined                       |                         |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible materials

Potassium permanganate solution.

**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**

**Eye Contact**                            Avoid contact with eyes.

**Skin Contact**                            Avoid contact with skin.

**Inhalation**                                Do not inhale.

**Ingestion**                                Do not ingest.

**Component Information**

| Chemical name                   | Oral LD50             | Dermal LD50         | Inhalation LC50       |
|---------------------------------|-----------------------|---------------------|-----------------------|
| Isopropyl Myristate<br>110-27-0 | > 10000 mg/kg ( Rat ) | = 5 g/kg ( Rabbit ) | > 41 mg/L ( Rat ) 1 h |
| Thyme Oil<br>8007-46-3          | = 2840 mg/kg ( Rat )  | -                   | -                     |
| Peppermint Oil<br>8006-90-4     | = 2426 mg/kg ( Rat )  | -                   | -                     |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms**                                Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity**                        Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**Oral LD50**                                42,415.10 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Component Information**

| Chemical name                   | Algae/aquatic plants                                         | Fish                                                                                                             | Crustacea                                   |
|---------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Isopropyl Myristate<br>110-27-0 | 100: 72 h <i>Desmodesmus</i><br><i>subspicatus</i> mg/L EC50 | 8400: 96 h <i>Brachydanio rerio</i> mg/L<br>LC50 semi-static<br>8400: 96 h <i>Brachydanio rerio</i> mg/L<br>LC50 | 100: 48 h <i>Daphnia magna</i> mg/L<br>EC50 |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

| Chemical name                   | Partition coefficient |
|---------------------------------|-----------------------|
| Isopropyl Myristate<br>110-27-0 | 7.71                  |

**Other adverse effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Contaminated Packaging**

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

**15. REGULATORY INFORMATION****International Inventories**

| Chemical name       | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|---------------------|------|-----------------------|----------|----------------|------|-------|------|-------|------|
| Flax Seed Oil       | X    | ACTIVE                | X        | X              |      | X     | X    | X     | X    |
| Isopropyl Myristate | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Thyme Oil           | X    | ACTIVE                | X        |                |      | X     | X    | X     | X    |
| Peppermint Oil      | X    | ACTIVE                | X        |                |      | X     | X    | X     | X    |

**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

**IECSC** - China Inventory of Existing 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****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).

**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

**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)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name              | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| Flax Seed Oil<br>8001-26-1 |            |               | X            |

**EPA Statement**

This product is exempt from registration under FIFRA section 25(b)

**16. OTHER INFORMATION****NFPA****Health hazards**

1

**Flammability**

1

**Instability**

0

**Special hazards**

-

**HMIS****Health hazards**

-

**Flammability**

-

**Physical hazards**

-

**Personal Protection**

Not determined

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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**