

# **Safety Data Sheet**

1. IDENTIFICATION

**Product identifier** 

Product Name ECO-1 Garden Spray Ready To Use

Other means of identification

SDS # ARBOR-010

**Product Code** 32 fl. oz. 040-7300

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 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.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which, at their given concentration, are considered to be hazardous to health. However, additional component information is available in subsequent sections of this SDS.

## 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 any contact lenses. Get medical attention if

irritation occurs.

**Skin Contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

Get medical aid if irritation develops or persists.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

**Ingestion** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to

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do so by medical personnel. Get medical attention if symptoms occur.

# Most important symptoms and effects, both acute and delayed

**Symptoms** May cause eye irritation. May cause skin irritation.

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

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## **Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO2). 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.

#### Protective equipment and precautions for firefighters

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove

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manufacturers. In the case of mixtures, consisting of several substances, the protection

time of the gloves cannot be accurately estimated. 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.

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. 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

Physical stateLiquidOdorMinty BotanicalAppearanceWhite liquidOdor ThresholdNot determinedColorWhiteOdor ThresholdNot determined

Property Values Remarks • Method

Not determined

**pH** 6.5

Melting point / freezing point No data available Initial boiling point and boiling No data available

range

Flash point >95 °C / >203 °F
Evaporation Rate Not determined
Flammability (Solid, Gas) Liquid-Not applicable

Flammability Limit in Air

Upper flammability or explosive No data available

limits

**Lower flammability or explosive** No data available

limits

Vapor PressureNot determinedVapor DensityNo data availableRelative Density0.996 @ 18.3°C (65°F)

Water Solubility Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** No data available Hyphen Not determined Kinematic viscosity 0.03 cm2/s (43.57cSt) **Dynamic Viscosity** Not determined **Explosive Properties** Not determined

10. STABILITY AND REACTIVITY

#### Reactivity

**Oxidizing Properties** 

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.

Avoid contact with skin. **Skin Contact** 

Inhalation Do not inhale.

Ingestion Do not ingest.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Thyme Oil 8007-46-3	= 2840 mg/kg (Rat)	<del>-</del>	-	
Peppermint Oil 8006-90-4	= 2426 mg/kg (Rat)	-	-	

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

Please see section 4 of this SDS for symptoms. **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 94,666.70 mg/kg

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

# Persistence/Degradability

Not determined.

#### Bioaccumulation

There is no data for this product.

#### Mobility

Not determined

#### 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.

Not regulated DOT

IATA Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

## **International Inventories**

Chemical name	TSCA	TSCA Inventory	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AIIC
		Status		NCS					
Flax Seed Oil	Х	ACTIVE	Χ	Х		Х	Χ	Х	Χ
Thyme Oil	Х	ACTIVE	Х			Х	Х	Х	Χ
Peppermint Oil	Х	ACTIVE	Х			Х	Х	Х	Х

#### Legend:

- 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			X
8001-26-1			

#### **EPA Statement**

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

16. OTHER INFORMATION					
<u>NFPA</u>	Health hazards	Flammability	Instability	Special hazards	
HMIS	1 Health hazards	1 Flammability	0 Physical hazards	- Personal Protection	
<u></u>	-	-	-	Not determined	
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## 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**