

# **Safety Data Sheet**

### 1. IDENTIFICATION

**Product identifier** 

Product Name TREE-äge® G4

Other means of identification

SDS # ARBOR-018

Product Code 1-Quart (040-4120), 1-Quart Case of 4 (040-4125)

**Registration Number(s)** EPA Reg. No. 74578-10

UN/ID No UN3082

Recommended use of the chemical and restrictions on use

Recommended Use Insecticide.

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

<u>Emergency Overview</u> This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Blue liquid Physical state Liquid Odor Aromatic

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

### Signal Word

Danger

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#### **Hazard statements**

Harmful if swallowed Toxic in contact with skin

Toxic if inhaled

Causes serious eye damage

May damage fertility or the unborn child

Causes damage to organs

Causes damage to organs through prolonged or repeated exposure



#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

### **Precautionary Statements - Response**

IF exposed: 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 immediately all contaminated clothing and wash it before reuse

Call a POISON CENTER or doctor if you feel unwell

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other hazards

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Tetrahydrofurfuryl alcohol	97-99-4	≥10-<25
Emamectin benzoate	155569-91-8	≥3-<5

<sup>\*\*</sup>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, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

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

Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

**Inhalation** Remove person to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosed tight clothing such as a collar, tie, belt or waistband.

**Ingestion** Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

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

Symptoms Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes serious eye

damage. May damage fertility or the unborn child. Causes damage to organs. Causes

damage to organs through prolonged or repeated exposure.

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

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Do not use water in a 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 dioxide (CO2). Carbon monoxide. Irritating and/or toxic gases.

### 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. See also the information in "For non-

emergency personnel".

**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. Dilute with water and mop up if water-soluble or

absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant of 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). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may

pose the same hazard as the spilled product.

### 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. 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 a segregated and approved area. Store

away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Eliminate all ignition sources. Separate from oxidizing materials. 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 Strong oxidizing agents.

### 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.

**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. Disposable vinyl, natural rubber (latex), neoprene, neoprene rubber, nitrile rubber, polyethylene (PE), polyvinyl chloride (PVC). 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. 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 be a

specialist before handling.

**Respiratory Protection** Inhalation potential is low due to the application method. If vapors or mists are present,

wear NIOSH-approved air-purifying respirator with cartridges/canisters approved for use

against pesticides.

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 stateLiquidAppearanceBlue liquidOdorAromaticColorBlueOdor ThresholdNot determined

Property Values Remarks • Method

pH 4.5

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

range

Flash point >100 °C >212 °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

Property Values Remarks • Method

PropertyValuesReVapor PressureNot determinedVapor DensityNo data available

Relative Density 1.070

Water Solubility Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** No data available Hyphen Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** 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**

Strong 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** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Toxic in contact with skin.

**Inhalation** Toxic if inhaled.

**Ingestion** Harmful if swallowed.

### **Component Information**

Chemical name	Chemical name Oral LD50 Dermal LD50		Inhalation LC50
Tetrahydrofurfuryl alcohol 97-99-4	= 1600 mg/kg ( Rat )	-	-
Emamectin benzoate 155569-91-8	= 63 mg/kg (Rat)	= 2000 mg/kg ( Rat )	1.049 - 1.981 mg/L (Rat) 4 h = 0.663 mg/L (Rat) 4 h

### 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

Serious eye damage/eye

irritation

Causes serious eye damage.

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

**Reproductive toxicity** May damage fertility or the unborn child.

**STOT - single exposure** Causes damage to organs.

**STOT - repeated exposure**Causes damage to organs through prolonged or repeated exposure.

#### **Numerical measures of toxicity**

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

 Oral LD50
 315.80 mg/kg

 Dermal LD50
 300.00 mg/kg

 ATEmix (inhalation-dust/mist)
 0.501 mg/l

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

#### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Tetrahydrofurfuryl alcohol		101: 96 h Oryzias latipes mg/L LC50	
97-99-4		semi-static	

#### Persistence/Degradability

Not determined.

### **Bioaccumulation**

There is no data for this product.

### **Mobility**

Chemical name	Partition coefficient	
Tetrahydrofurfuryl alcohol	-0.14	
97-99-4		

#### 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

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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

UN/ID No UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. (Emamectin benzoate)

Transport hazard class(es) **Packing Group** 

**Marine Pollutant** This material ships as a marine pollutant when inner package/single container is greater

than 119 gallons/882 lbs.

IATA

**UN number or ID number** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. (Emamectin benzoate)

Transport hazard class(es) Packing group

Description This material ships as a marine pollutant when inner packagings exceed 5L/5KG

**IMDG** 

**UN number or ID number** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. (Emamectin benzoate)

Transport hazard class(es) 9 **Packing Group** Ш

**Marine Pollutant** This material ships as a marine pollutant when inner packagings exceed 5L/5KG

### 15. REGULATORY INFORMATION

### **International Inventories**

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
Tetrahydrofurfuryl alcohol	X	ACTIVE	X	X	X	X	Χ	X	X

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
Tetrahydrofurfuryl alcohol		X	X
97-99-4			

### EPA Pesticide Registration Number EPA Reg. No. 74578-10

#### **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. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label**

Please see EPA label for additional information

### Difference between SDS and EPA pesticide label

Please see EPA label for additional information

16. OTHER INFORMATION

NFPAHealth hazardsFlammabilityInstabilitySpecial hazards210-HMISHealth hazardsFlammabilityPhysical hazardsPersonal Protection210Not 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**