



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identity:** ABACIDE™ 2  
**Synonym:** Abamectin 0.15 EC  
**Product Use:** Systemic insecticide for tree injection only  
**EPA Registration No.:** 7946-27 and 7946-30  
**Product Type:** Liquid  
**Company Name:** J. J. MAUGET COMPANY  
**Company Address:** 5435 PECK ROAD  
ARCADIA, CA 91006-5847  
**Tel:** 626-444-1057  
**Emergency Contact:** INFOTRAC 1-800-535-5053  
911

### 2. HAZARDS IDENTIFICATION



**Classification:**

Oral Toxicity (Acute): GHS Category 3  
Inhalation Toxicity (Acute): GHS Category 2  
Skin Corrosion/Irritation (Acute): GHS Category 2  
Eye damage/eye irritation (Acute): GHS Category 2  
Reproductive toxicity: GHS Category 1B  
Aquatic Toxicity (Acute): GHS Category 1

**Signal Word**

DANGER

**Hazard Statements**

H301 - Toxic if swallowed  
H330 - Fatal if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H360 - May damage fertility or the unborn child  
H400 - Very toxic to aquatic life

**Precautionary Statements - Prevention**

P203 – Obtain, read, and follow all safety instructions before use  
P280 - Use personal protective equipment as required  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P260 - Do not breathe dust/fumes/gas/mist/vapors/spray  
P284 - Wear respiratory protection

**Precautionary Statements - Response**

P318 - If exposed or concerned: Get medical advice/attention  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P317 - If eye irritation persists: Get medical advice/attention  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P332+P317 - If skin irritation occurs: Get medical advice/attention  
P304+P340+P316 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician  
P301+P316 - IF SWALLOWED: Get emergency medical help immediately  
P330 - Rinse mouth

### **Precautionary Statements - Storage**

P405 - Store locked up

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

### **Precautionary Statements - Disposal**

P501 - Dispose of contents/container to an approved waste disposal plant

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

	<u>CAS No</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Weight-%</u>
N-methyl-2- pyrrolidone	872-50-4	N/A	N/A	19 – 21
2-Ethylhexanol	104-76-7	N/A	N/A	10.09-10.71
Abamectin	71751-41-2	N/A	N/A	1.9

\*\*Ingredients not listed are considered a trade secret and are withheld under 29 CFR 1910.1200(i).\*\*

## **4. FIRST AID MEASURES**

### **First Aid Measures**

<b>General Advice</b>	If exposed or concerned: Get medical advice/attention. When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial respiration. Call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	IF SWALLOWED: Call a poison control center or physician immediately. Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

### **Most important symptoms and effects**

Symptoms	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause gastrointestinal disturbance. Nausea. Vomiting.
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### **Indication of any immediate medical attention and special treatment needed**

**Note to Physician:** Treat symptomatically. Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity follows accidental ingestion of Abacide 2 and can be minimized by promptly administering activated charcoal. If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and respiratory functionality) as indicated by clinical signs, symptoms, and measurements. In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

## **5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Foam. Carbon dioxide (CO2). Dry chemical.

**UNSUITABLE EXTINGUISHING MEDIA:** Not determined.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** Not determined.

**HAZARDOUS COMBUSTION PRODUCTS:** Combustion products include, but are not limited to carbon monoxide and carbon dioxide.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Prevent human exposure to fire, fumes, smoke and products of combustion. Evacuate non-essential personnel.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** See Section 8 – Exposure Controls/Personal Protection

**Environmental Precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: Disposal Considerations.

**Spill or leak procedures:** Prevent further leakage or spillage if safe to do so. Contain and collect with an inert absorbent and place into an appropriate container for disposal. Clean the floor with detergent and water. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

## **7. HANDLING AND STORAGE**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment.

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep/store only in original container. Store at ambient conditions. Store locked up.

**Incompatible Materials:** None known based on information supplied.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Respiratory:</b>	Not normally needed.
<b>Eye:</b>	Wear protective eyewear (e.g., goggles or full-face shield)
<b>Ventilation:</b>	Use where adequate ventilation is available.

**Other Protective Devices and Procedures:** Wear chemical resistant gloves, such as barrier laminate or butyl rubber  $\geq 14$  mils, neoprene rubber, or viton. Wear long-sleeved shirt and long pants, shoes plus socks.

**General Hygiene Considerations:** Personal hygiene is an important work practice. Exposure control measures and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Straw-amber liquid
<b>Odor:</b>	None
pH	5.1 @ 25°C
Melting Point/Freezing Point	Not available
Boiling Point/Boiling Range	Not Available
Flash Point	>110°C / >230°F Pensky-Martens Closed Cup (PMCC)
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Liquid-not applicable
Upper Flammability Limits	Not determined
Lower Flammability Limit	Not determined
Vapor Pressure	7.5x10 <sup>-8</sup> @ 25°C
Vapor Density	Not determined
Specific Gravity	0.98
Water Solubility	Miscible in water
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not Determined
Explosive Properties	Not Determined
Oxidizing Properties	Not Determined
Bulk Density	0.987 g/ml

## **10. STABILITY AND REACTIVITY**

**Reactivity:** Not reactive under normal conditions.

**Chemical Stability:** Stable under normal handling and storage conditions.

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

**Conditions to Avoid:** See Sec. 7 Handling & Storage.

**Incompatible Materials:** None based on information supplied.

**Hazardous Decomposition Products:** Thermal decomposition may produce carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ABACIDE™ 2 Systemic Insecticide	271-422 mg/kg (Rat)	>2,000 (Rat)	>2.13 mg/L (Rat) 4h

May damage fertility or the unborn child.

Causes serious eye irritation

Causes skin irritation

Not a skin sensitizer

Fatal if inhaled

Toxic if swallowed

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure.

Please see section 4 of this SDS for symptoms.

Chemical Name	IARC	NTP	OSHA
Abamectin (71751-41-2)	Not listed	Not Listed	Not Listed
N-methyl-2-pyrrolidone (872-50-4)	Not Listed	Not Listed	Not Listed
2-Ethylhexanol (104-76-7)	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

Chemical Name	Algae/aquatic plants	Fish	Crustacea
N-methyl-2-pyrrolidone (872-50-4)	EC50: >500 mg/L, 72 h (Desmodesmus subspicatus)	LC50: 1400 mg/L, 96h static (Poecilia reticulata) LC50: 1072 mg/L, 96h static (Pimephales promelas) LC50: 832 mg/L, 96h static (Lepomis macrochirus)	EC50: 4897 mg/L, 48h (Daphnia magna)
2-Ethylhexanol (104-76-7)	EC50: 11.5 mg/L, 72 h (Desmodesmus subspicatus)	LC50: 32–37 mg/L, 96h static (Oncorhynchus mykiss) LC50: 7.5 mg/L, 96h static (Oncorhynchus mykiss) LC50: 27-29.5, 96h flow-through (Pimephales promelas) LC50: 29.7 mg/L, 96h static (Pimephales promelas) LC50: 10.0-33.0 mg/L, 96h static (Lepomis macrochirus)	EC50: 39 mg/L, 48h (Daphnia magna)
Abamectin (71751-41-2)		LC50: 4.3 µg/l (Rainbow Trout)	LC50: 0.41 ug/L (Daphnia Magna)

**Persistence/Degradability:** Not determined.

**Bioaccumulation:** Not determined.

**Mobility:**

Chemical Name	Partition Coefficient
N-methyl-2-pyrrolidone (872-50-4)	-0.46
2-Ethylhexanol (104-76-7)	3.1

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be

disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**Contaminated Packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Abamectin (71751-41-2)	Toxic

### **14. TRANSPORT INFORMATION**

#### **Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Based on package size, product may be eligible for limited quantity exception.

#### **DOT Classification**

UN/ID No UN2902  
 Proper Shipping Name Pesticides, liquid, toxic, N.O.S. (abamectin)  
 Hazard Class 6.1  
 Packing Group III

#### **IATA Classification**

UN/ID No UN2902  
 Proper Shipping Name Pesticides, liquid, toxic, N.O.S. (abamectin)  
 Hazard Class 6.1  
 Packing Group III  
 Description Marine Pollutant

#### **IMDG Classification**

UN/ID No UN2902  
 Proper Shipping Name Pesticides, liquid, toxic, N.O.S. (abamectin)  
 Hazard Class 6.1  
 Packing Group III  
 Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

### **15. REGULATORY INFORMATION**

#### **International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
N-methyl-2-pyrrolidone	Present	X		Present		Present	X	Present	X	X
2-Ethylhexanol	Present	X		Present		Present	X	Present	X	X
Abamectin								Present		

#### **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**

#### **SARA 311/312 Hazard Categories**

Acute Health Hazard Yes  
 Chronic Health Hazard Yes  
 Fire Hazard No  
 Sudden Release of Pressure Hazard No  
 Reactive Hazard No

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
N-methyl-2-pyrrolidone (872-50-4)	872-50-4	20	1.0
Abamectin (71751-41-2)	71751-41-2	1.9	1.0

## **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
N-methyl-2-pyrrolidone (872-50-4)	Developmental
Abamectin (71751-41-2)	Developmental

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
N-methyl-2-pyrrolidone 872-50-4	X	X	X
2-Ethylhexanol 104-76-7		X	X
Abamectin 71751-41-2	X		

### **EPA Pesticide Registration Number**

7946-27 and 7946-30

### **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. The pesticide label also includes other important information, including directions for use.

Following is the hazard information as required on the pesticide label:

Signal Word: Warning

#### **Hazards to Humans and Domestic Animals:**

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes. Harmful if absorbed through the skin or inhaled. Avoid breathing vapors.

#### **Environmental Hazards:**

This pesticide is toxic to fish and wildlife. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops.

#### **Physical or Chemical Hazards:**

Do not use or store near heat or open flame.

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California Addendum (Proposition 65) Safe Drinking Water and Toxic Enforcement Act of 1986.

The following specific warnings are hereby given relative to substances that the State of California has identified as carcinogens and/or reproductive hazards under Proposition 65:

- ☐ WARNING: This product contains chemicals, known to the State of California to cause birth defects or other reproductive harm.
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## **16. OTHER INFORMATION**

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.