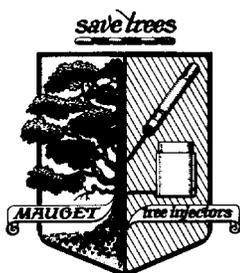


J. J. MAUGET CO.



Mauget

REG. T.M.

MATERIAL SAFETY DATA SHEET

J. J. MAUGET COMPANY
5435 PECK ROAD
ARCADIA, CA. 91006-5847

In Case of Emergency, Call
(626) 444-1057

I. MATERIAL IDENTIFICATION

Product Name: **ABACIDE™** EPA Registrtrion No.:7946-19

Active Ingredient: (% w/w)

Abamectin B (1.0%) CAS NO. 7175-41-2

Chemical Name: Abamectin B₁ [a mixture of avermectins containing > 80% avermectin B_{1a} (5-O-demethyl avermectin A_{1a}) and < 20% avermectin B_{1b} (5-O-demethyl-25-de (1-methylpropyl)-25-methylethyl) avermectin A_{1a})]

Chemical Class: Insecticide

EPA Signal Word: Warning

II. HAZARDOUS INGREDIENTS

<u>Material</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% Ingredients</u>
Active: Abamectin B ¹	N/A	N/A	1.0%
Inert Ingredients: (non-hazardous) Trade Secret	N/A	N/A	

Product Name: **ABACIDE™**

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III. FIRST AID PROCEDURES

Early signs of intoxication may include mydriases (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity following accidental ingestion of the concentrate can be minimized by inducing vomiting with one half hour of exposure.

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels) 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 B₁ is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that influence GABA activity (barbiturates, benzodiazapines, valproic acid) in patients with potentially toxic abamectin B₁ exposure.

Ingestion: Immediately give one or two glasses of water and induce vomiting by gently touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash with plenty of soap and water. Get medical attention if symptoms occur.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms persist.

IV. HEALTH HAZARD INFORMATION

Symptoms of Exposure: Slight to moderate eye irritation. Irritating to skin. High vapor concentrations may cause drowsiness.

Routes of Entry:
Inhalation: Yes
Skin: Yes
Ingestion: Yes

Carcinogenicity:
NTP: Not Listed
IARC: Not Listed
OSHA: Not Listed

V. PHYSICAL HAZARD INFORMATION

Physical Properties

Boiling Point:	352°F, 178°C
Specific Gravity:Density =	0.9410 g/ml Density = 7.85 lbs/gal
Vapor Pressure:	0.2 @ 68°F, 20°C
Vapor Density:	3.5
pH:	3.0
Melting Point:	-69.5°F, -56.4°C
Evaporation Rate:	N/A
Solubility in Water:	Complete
Appearance:	Light amber liquid
Odor:	Woody like

Fire and Explosion

Flash Point:	150°F, 65.5°C
Flammability Limits:	UEL: 9.7%
	LEL: 1.5%

Reactivity

Stability: Stable under normal storage conditions

Hazardous Decomposition: Combustion produces toxic gases including carbon dioxide and carbon monoxide, and smoke can be generated .

Hazardous Polymerization: Will not occur

Conditions to Avoid: None

Incompatibility: Material can react with strong oxidizing agents.

VI. ENVIRONMENTAL PROTECTION

Waste Disposal Method: Observe all federal, state and local laws concerning health and environment.

In case of Fire: Use dry chemical, alcohol foam, or carbon dioxide extinguishing media. *For special fire fighting procedures:* Excessive use of water may create contaminated run-off water which may cause further contamination. Follow environmental and personal safety precautions noted for spill or leak. Wear self-contained breathing apparatus and full protective clothing. Move container from fire area if you can do it without risk. Keep upwind and evacuate personnel in the immediate area. Follow post-fire decontamination procedures including thorough washing of all fire fighting clothing and equipment. Fire fighters must thoroughly wash immediately following incident.

In case of Spill or Leak: Isolate hazard area and keep unnecessary people away. Personnel involved in cleanup should wear full protective clothing. Wear goggles and imervious rubber gloves when handling spilled material. No flares, smoking or flame in isolated area. Wear respiratory protection for prolonged exposure. Soak up with sand or other noncombustible material and containerize contaminated material in a suitable drum for destruction by incineration. Thoroughly clean all nondisposable items contaminated or used in the cleanup. Run-off from fire control or dilution water may cause water pollution. For large spills, a diversion dike can be made to retain liquid for disposal. Observe all government regulations on spill reporting, and handling and disposal of waste.

Unusual Fire and Explosion Hazards: Abacide™ contains a combustible emulsifiable concentrate liquid.

VII. PERSONAL PROTECTION AND PRECAUTIONS

Respiratory: Not normally needed.

Eye: Wear protective eye wear.

Ventilation: Adequate ventilation should be available.

Other Protective Devices and Procedures: Wear chemical resistant gloves, such as polyethylene or butyl rubber or neoprene rubber or viton.

As is the case for handling any pesticide on a regular basis, showers and a clean change of clothes are recommended at the end of work day. Wash hands before eating, drinking or smoking.

VIII. 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 a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

IX. SARA TITLE III HAZARD CATEGORY: For Reporting Under Section 311 & 312

Components present in this product that require reporting under the statute are: None

Issued Date: 7/26/96

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.