



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: ABASOL®
Synonym: N/A
Product Use: Systemic insecticide/Fungicide for tree injection only
EPA Registration No.: 7946-20
Product Type: Liquid
Company Name: J. J. MAUGET COMPANY
Company Address: 129 Growth Center Dr NE #A
Floyd, VA 24091
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/fume/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>
Debacarb	62732-91-6	N/A	N/A	1.70
Carbendazim	10605-21-7	N/A	N/A	0.30
N-methyl-2-pyrrolidone	872-50-4	N/A	N/A	4.00
2-Ethylhexanol	104-76-7	N/A	N/A	2.00
Abamectin	71751-41-2	N/A	N/A	0.46
Tetrahydrofurfuryl alcohol (THFA)	97-99-4	N/A	N/A	Trade Secret

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

4. FIRST AID MEASURES

First Aid Measures

General Advice	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.
Eye Contact	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.
Skin Contact	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.
Inhalation	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.
Ingestion	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.

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 Abasol 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: Use personal protection recommended in Section 8. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

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

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

Methods for Clean-Up: 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

Eye/Face Protection: Protective eyewear (e.g. goggles or full-face shield).

Skin and Body Protection: Chemical resistant, impermeable gloves. Coveralls over long- or short-sleeved shirt and long pants, chemical-resistant footwear plus socks and head covering (for overhead exposure). Chemical-resistant apron when cleaning equipment, mixing or loading.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations: Wash face, hands and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Straw-amber liquid
Odor:	Woody like
pH	3.0 @ 25°C
Melting Point/Freezing Point	Not available
Boiling Point/Boiling Range	352°F, 178°C
Flash Point	182°F Pensky-Martens Closed Cup (PMCC)
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Liquid-not applicable
Upper Flammability Limits	9.7%
Lower Flammability Limit	1.5%
Vapor Pressure	0.2 @ 68°F (20°C)
Vapor Density	3.5
Specific Gravity	0.9470 (Density = 7.85 lbs/gal)
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
N-methyl-2-pyrrolidone (872-50-4)	3598 mg/kg (Rat)	8 g/kg (Rabbit)	3.1 mg/L (Rat) 4h
2-Ethylhexanol (104-76-7)	1516-2774 mg/kg (Rat)	1980 mg/kg (Rabbit)	N/A
Abamectin (71751-41-2)	28.47 mg/kg	200-2000 mg/kg	0.055-0.21 mg/l

Repeated Dose Oral Toxicity (THFA only) NOAEL: 35 mg/kg male and female rats (RTECS: LU2450000)

May damage fertility or the unborn child.

Causes serious eye irritation.

Causes skin irritation.

Fatal if inhaled.

Toxic if swallowed.

Not a skin sensitizer

Causes damage to organs through prolonged or repeated exposure.

May cause respiratory irritation.

Not carcinogenic.

Please see Section 4 of this SDS for symptoms.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects. This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

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 ug/L (Rainbow Trout)	LC50: 0.47 µg/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

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	4.00	1.0
Abamectin (71751-41-2)	71751-41-2	0.46	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 **EPA Statement**

7946-20

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 hazard information required on the pesticide label is reproduced below. 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:

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Remove contaminated clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and Other Handlers Must Wear:

- Coveralls over short-sleeved shirt and long pants
- Chemical resistant gloves, such as polyethylene or butyl rubber or neoprene rubber or viton
- Chemical resistant footwear plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

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.

16. OTHER INFORMATION

SDS Issue Date: November 2021

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.