

# **SAFETY DATA SHEET**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: ABASOL<sup>TM</sup> Systemic Insecticide/Fungicide

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 COMPANYCompany Address:5435 PECK ROAD

ARCADIA, CA 91006-5847 626-444-1057

**Tel**: 626-444-1057 **Fax**: 626-444-7414

Emergency Contact: INFOTRAC 1-800-535-5053

911

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** 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 Straw-amber liquid Physical State Liquid Odor None

## Classification

Acute toxicity-Oral	Category 3
Acute toxicity-Inhalation (Vapors)	Category 4
Acute toxicity-Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

#### Signal Word

Danger

# **Hazard Statements**

Toxic if swallowed
Fatal if inhaled
Causes skin irritation
Causes serious eye irritation
May cause cancer

May damage fertility or the unborn child

May cause respiratory irritation

Causes damage to organs through prolonged or repeated exposure





#### <u>Precautionary Statements - Prevention</u>

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

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

Wear respiratory protection Wear eye/face protection

## **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

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 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
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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Debacarb	62732-91-6	1.70
Carbendazim	10605-21-7	0.30
N-methyl-2-pyrrolidone	872-50-4	4.00
2-Ethylhexanol	104-76-7	2.00
Abamectin	71751-41-2	0.46
Other Ingredients: (non-hazardous	3)	91.54
Trade Secret		

<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

## 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 (dilate 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

#### **Suitable 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, protective equipment and emergency procedures

**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 and material for containment and cleaning up

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

## Precautions for safe handling

Advice on Safe Handling: 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.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions:** 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

Exposure Guidelines: The following information is given as general guidance

## Appropriate engineering controls:

Engineering Controls: THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS OF END USE PRODUCTS CONTAINING THIS MATERIAL, CONSULT THE SDS OR PRODUCT LABEL FOR THE END USE PRODUCT.

## Individual protection measures, such as personal protective equipment

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

## Information on basic physical and chemical properties

Physical State: Liquid

Appearance:Straw-amber liquidOdor:Woody likeColor:Straw-amberOrder Threshold:Not Determined

<u>Property</u> <u>Values</u> <u>Remarks - Method</u>

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 the following: Carbon monoxide and carbon dioxide.



# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation. Skin Contact Causes skin irritation.

Inhalation Fatal if inhaled. Ingestion Toxic if swallowed.

## Component Information

**Chemical Name** Oral LD50 **Dermal LD50** Inhalation LC50 N-methyl-2-pyrrolidone = 3598 mg/kg (Rat)= 8 g/kg (Rabbit) = 3.1 mg/L (Rat) 4 h

872-50-4

2-Ethylhexanol 1516 - 2774 mg/kg (Rat) = 1980 mg/kg ( Rabbit )

104-76-7

Abamectin 28.47 mg/kg 200-2000 mg/kg 0.055-0.21 mg/l

71751-41-2

## Information on physical, chemical and toxicological effects

**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

Carcinogenicity May cause cancer.

**Chemical Name ACGIH** IARC NTP **OSHA** Χ

Abamectin Group 2A

71751-41-2 Legend:

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity May damage fertility or the unborn child.

STOT - single exposure May cause respiratory irritation.

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

## **Numerical measures of toxicity**

Not determined

## 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 waster 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.



# **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
N-methyl-2- pyrrolidone 872-50-4	500: 72 h Desmodesmus subspicatus mg/L EC50	4000: 96 h Leuciscus idus mg/L LC50 static 1072: 96 h Pimephales promelas mg/L LC50 static 1400: 96 h Poecilia reticulata mg/L LC50 static 832: 96 h Lepomis macrochirus mg/L LC50 static	· ·	4897: 48 h Daphnia magna mg/L EC50
2-Ethylhexanol 104-76-7	11.5: 72 h Desmodesmus subspicatus mg/L EC50	32 - 37: 96 h Oncorhynchus mykiss mg/L LC50 static 7.5: 96 h Oncorhynchus mykiss mg/L LC50 27 - 29.5: 96 h Pimephales promelas mg/L LC50 flow-through 29.7: 96 h Pimephales promelas mg/L LC50 static 10.0 - 33.0: 96 h Lepomis macrochirus mg/L LC50 static		39: 48 h Daphnia magna mg/L EC50
Abamectin 71751-41-2		Rainbow Trout LC50: 4.3 µg/l		Daphnia Magna LC50: 0.47 μg/l

# Persistence/Degradability

Not determined.

# **Bioaccumulation**

Not determined.

# **Mobility**

**Chemical Name** N-methyl-2-pyrrolidone 872-50-4 2-Ethylhexanol 104-76-7

# Other Adverse Effects Not determined

**Partition Coefficient** 

-0.46

3.1



# 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

**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.

Toxic

**California Hazardous Waste Status** 

Chemical Name California Hazardous Waste Status

Abamectin 71751-41-2

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

UN/ID No UN2902

Proper Shipping Name Pesticides, liquid, toxic, N.O.S. (abamectin)

Hazard Class 6.1 Packing Group III

<u>IATA</u>

UN/ID No UN2902

Proper Shipping Name Pesticides, liquid, toxic, N.O.S. (abamectin)

Hazard Class 6.1 Packing Group III

**Description** Marine Pollutant

<u>IMDG</u>

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	Χ		Present		Present	Χ	Present	Χ	Χ
2-Ethylhexanol	Present	Χ		Present		Present	Χ	Present	Χ	Χ
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	1.85-2.05	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	Χ	X	X
872-50-4			
2-Ethylhexanol		X	Χ
104-76-7			
Abamectin	Χ		
71751-41-2			



## EPA Pesticide Registration Number EPA Statement

7946-27

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**

Signal Word: Warning

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes. Harmful if absorbed through skin or inhaled. Avoid contact with skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

## Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Warning	Danger
Acute toxicity - Oral	May be fatal if swallowed	Toxic if swallowed
Acute toxicity - Dermal	Harmful if absorbed through ski	n N/A
Acute toxicity - Inhalation	Harmful if inhaled	N/A
(Vapors)		
Acute toxicity - Inhalation	N/A	Fatal if inhaled
(Dusts/Mists)		
Skin corrosion/irritation	N/A	Causes skin irritation
Serious eye damage/eye	Causes substantial but	Causes serious eye irritation
irritation	temporary eye injury	
Carcinogenicity	N/A	May cause cancer
Reproductive toxicity	N/A	May damage fertility or the
		unborn child
STOT - single exposure	N/A	May cause respiratory irritation
STOT - repeated exposure	N/A	Causes damage to organs
		through prolonged or repeated
		exposure

## 16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection

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** 

