

Issue Date 15-Jun-2015

Revision Date 19-May-2017

Version 4

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Liquid Fruit Tree Spray

### Other means of identification

**Product Code** PBI FP 795-5

**EPA Pesticide Registration Number** 4-122-33955

### Recommended use of the chemical and restrictions on use

**Recommended Use** Fungicide. Insecticide.

**Uses advised against** No information available.

### Details of the supplier of the safety data sheet

#### **Supplier**

PBI Gordon Corporation  
1217 West 12th Street  
Kansas City, MO 64101

#### **Manufacturer**

PBI Gordon Corporation  
1217 West 12th Street  
Kansas City, MO 64101

#### **Company Name**

PBI Gordon Corporation  
1217 West 12th Street  
Kansas City, MO 64101

#### Emergency telephone number

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Inhalation Toxicity - Gases	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation Category	Category 2
Serious eye damage/eye irritation	Category 1
Skin Sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Aspiration Toxicity	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1
Flammable liquids	Category 3

### Label elements

#### **Emergency Overview**

#### **Danger**

#### **Hazard statements**

Toxic if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.

Flammable liquid and vapor.

**Appearance** Suspension**Physical state** Liquid**Odor** Solvent**Precautionary Statements - Prevention**

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- Avoid release to the environment
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool

**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 skin irritation or rash occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Do NOT induce vomiting
- In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction
- Collect spillage

**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

**Hazards not otherwise classified (HNOC)**

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.

**Other Information****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS. Number	Weight %
Trade Secret	Proprietary	40-50*
Trade Secret	Proprietary	20-30*
Captan	133-06-2	11.76

Malathion	121-75-5	6
Trade Secret	Proprietary	0-10*
Trade Secret	Proprietary	0-10*
Carbaryl	63-25-2	0.3

\* The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

##### First aid measures

<b>General advice</b>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Use personal protective equipment as required.

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

**Symptoms** No information available.

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

**Note to physicians** May cause sensitization of susceptible persons. Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray (fog).

##### Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Flammable.

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### Protective equipment and precautions for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

Keep people away from and upwind of spill/leak.

### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. 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 cleaning up** Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

**Incompatible materials** Incompatible with strong acids and bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trade Secret	-	-	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
Captan 133-06-2	TWA: 5 mg/m <sup>3</sup> inhalable fraction	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Malathion 121-75-5	TWA: 1 mg/m <sup>3</sup> inhalable fraction and vapor S*	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) S* S* total dust	IDLH: 250 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Trade Secret	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m <sup>3</sup>	-
Trade Secret	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m <sup>3</sup>
Carbaryl 63-25-2	TWA: 0.5 mg/m <sup>3</sup> inhalable fraction and vapor S*	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 100 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

NIOSH IDLH *Immediately Dangerous to Life or Health*

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Appropriate engineering controls

**Engineering Controls** Local and General Ventilation.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Wear protective gloves and protective clothing. Wear long-sleeved shirt, long pants, socks and shoes.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Solvent
<b>Appearance</b>	Suspension	<b>Odor threshold</b>	No information available
<b>Color</b>	Light brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not Indicated	
Melting point/freezing point	<35 °F	
Boiling point / boiling range	> 102 °C / 215 °F	
Flash point	34 °C / 94 °F	Tag Closed Cup
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	1.03	
Water solubility	Suspension	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Oxidizing properties	No information available	

### Other Information

**Density** 8.58 pounds/gallon

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization**

Will not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Incompatible with strong acids and bases.

**Hazardous Decomposition Products**

May emit toxic fumes under fire conditions. Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation** No data available.

**Eye contact** No data available.

**Skin Contact** No data available.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	= 8400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h
Trade Secret	= 3280 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m <sup>3</sup> ( Rat ) 4 h
Captan 133-06-2	= 3573 mg/kg ( Rat ) = 9 g/kg ( Rat )	> 5000 mg/kg ( Rat ) > 5 g/kg ( Rat )	= 0.72 mg/L ( Rat ) 4 h
Malathion 121-75-5	= 1390 mg/kg ( Rat ) = 290 mg/kg ( Rat )	= 4100 mg/kg ( Rabbit )	= 43790 µg/m <sup>3</sup> ( Rat ) 4 h
Trade Secret	= 3500 mg/kg ( Rat )	> 4350 mg/kg ( Rabbit ) > 1700 mg/kg ( Rabbit )	= 29.08 mg/L ( Rat ) 4 h = 5000 ppm ( Rat ) 4 h
Trade Secret	= 1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	> 3577 ppm ( Rat ) 6 h = 39000 mg/m <sup>3</sup> ( Rat ) 4 h
Carbaryl 63-25-2	= 230 mg/kg ( Rat )	= 4 g/kg ( Rat ) = 2000 mg/kg ( Rabbit )	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Captan 133-06-2	A3	Group 3		
Malathion 121-75-5		Group 2A		X
Trade Secret		Group 3		
Trade Secret		Group 2B	Reasonably Anticipated	X

Carbaryl 63-25-2		Group 3		X
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ACGIH (American Conference of Governmental Industrial Hygienists)  
 A3 - Animal Carcinogen  
 IARC (International Agency for Research on Cancer)  
 Group 2A - Probably Carcinogenic to Humans  
 Group 2B - Possibly Carcinogenic to Humans  
 Not classifiable as a human carcinogen  
 NTP (National Toxicology Program)  
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Chronic toxicity** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.  
**Target Organ Effects** blood, Central nervous system, Central Vascular System (CVS), Eyes, Gastrointestinal tract (GI), kidney, Liver, Respiratory system, Skin.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**Unknown Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

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

- ATEmix (oral) 4941 mg/kg
- ATEmix (dermal) 2860 mg/kg
- ATEmix (inhalation-gas) 1250 mg/L
- ATEmix (inhalation-dust/mist) 2 mg/L

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trade Secret		9.22: 96 h Oncorhynchus mykiss mg/L LC50		6.14: 48 h Daphnia magna mg/L EC50
Trade Secret		7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through		6.14: 48 h Daphnia magna mg/L EC50
Captan 133-06-2		0.168 - 0.238: 96 h Pimephales promelas mg/L LC50 static 0.059 - 0.070: 96 h Pimephales promelas mg/L LC50 flow-through 0.0666 - 0.0804: 96 h Oncorhynchus mykiss mg/L LC50 static 0.3: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.075: 96 h Oncorhynchus mykiss mg/L LC50 126: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.119 - 0.167: 96 h Lepomis macrochirus mg/L LC50 static 0.047 - 0.111: 96 h Lepomis macrochirus mg/L		7 - 9.9: 48 h Daphnia magna mg/L EC50 Static

		LC50 flow-through 0.16: 96 h Lepomis macrochirus mg/L LC50		
Malathion 121-75-5	4.06: 72 h Pseudokirchneriella subcapitata mg/L EC50	12.3 - 16.1: 96 h Pimephales promelas mg/L LC50 flow-through 6.45 - 11.5: 96 h Pimephales promelas mg/L LC50 static 10.1: 96 h Pimephales promelas mg/L LC50 0.24 - 1.24: 96 h Cyprinus carpio mg/L LC50 static 0.085: 96 h Cyprinus carpio mg/L LC50 semi-static 0.002: 96 h Cyprinus carpio mg/L LC50 9.7: 96 h Oryzias latipes mg/L LC50 static 1.2: 96 h Poecilia reticulata mg/L LC50 3.1: 96 h Poecilia reticulata mg/L LC50 static 0.34: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.010 - 0.088: 96 h Lepomis macrochirus mg/L LC50 static 0.089: 96 h Lepomis macrochirus mg/L LC50 0.028: 96 h Oncorhynchus mykiss mg/L LC50 0.094 - 0.146: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.0022 - 0.0074: 96 h Oncorhynchus mykiss mg/L LC50 static		0.00014 - 0.014: 48 h Daphnia magna mg/L EC50
Trade Secret		13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static	EC50 = 0.0084 mg/L 24 h	3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus lacustris mg/L LC50
Trade Secret	2.6: 72 h Pseudokirchneriella subcapitata mg/L EC50	6.04 - 6.61: 96 h Pimephales promelas mg/L LC50 flow-through 4.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 2.7: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 5.1: 96 h Poecilia reticulata mg/L LC50 semi-static	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	0.6: 48 h Daphnia magna mg/L EC50 7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static
Carbaryl 63-25-2		320: 96 h Oncorhynchus mykiss µg/L LC50 static 3.18 - 4.64: 96 h Poecilia reticulata mg/L LC50 static 1.39 - 2.32: 96 h Lepomis macrochirus mg/L LC50 static 1.03 - 1.38: 96 h Cyprinus carpio mg/L LC50	EC50 = 5.0 mg/L 5 min	0.0027 - 0.012: 48 h Daphnia magna mg/L EC50 Static 0.00154 - 0.00439: 48 h Daphnia magna mg/L EC50 Flow through



		static 4.57 - 5.48: 96 h Pimephales promelas mg/L LC50 flow-through 3.87 - 10.2: 96 h Lepomis macrochirus mg/L LC50 flow-through 3.4 - 4.5: 96 h Pimephales promelas mg/L LC50 static 56 - 2250: 96 h Oncorhynchus mykiss µg/L LC50 flow-through		
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**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

Very toxic to bees.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated packaging** Do not reuse container, unless specified by the manufacturer.

**US EPA Waste Number** D001

**14. TRANSPORT INFORMATION**

**DOT**

**Proper shipping name** For package sizes less than 9.91 gallons: product is non-regulated.

**Description** For package sizes 9.91 gallons or greater: UN2902, Pesticides, Liquid, N.O.S., (Captan), 6.1, PG III

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

PESTICIDES, NOI, INCLUDING DEFOLIANTS, FUNGICIDES, HERBICIDES, OR INSECTICIDES NMFC 155050-6

Freight Description – In our currently available sizes, this product must be Labeled and shipped as:

CONSUMER COMMODITY, ORM-D

**15. REGULATORY INFORMATION**

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** 4-122-33955

**Federal Insecticide, Fungicide, Rodenticide Act Regulations**

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**

Warning. Keep out of the reach of children. Causes substantial but temporary eye injury. Causes skin irritation. Harmful if

swallowed. Harmful if inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist or vapor. Wear coveralls over short sleeved shirt and short pants, socks, chemical resistant footwear, protective eyewear (goggles, face shield, safety glasses), and chemical resistant gloves (barrier laminate or Viton, selection category G).

**International Inventories**

<b>TSCA</b>	Listed
<b>DSL/NDSL</b>	Listed
<b>EINECS/ELINCS</b>	Listed
<b>ENCS</b>	Not Listed
<b>IECSC</b>	Listed
<b>KECL</b>	Listed
<b>PICCS</b>	Listed
<b>AICS</b>	Listed

**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

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Trade Secret	X	X		X			X	X	X	X
Trade Secret	X	X		X		X	X	X	X	X
Captan	X	X		X		X	X	X	X	X
Malathion		X		X		X	X	X	X	X
Trade Secret	X	X		X		X	X	X	X	X
Trade Secret	X	X		X		X	X	X	X	X
Carbaryl	X		X	X		X	X	X	X	X

**US Federal Regulations**

**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	SARA 313 - Threshold Values %
Trade Secret -	1.0
Captan - 133-06-2	1.0
Malathion - 121-75-5	1.0
Trade Secret -	1.0
Trade Secret -	1.0
Carbaryl - 63-25-2	1.0

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Captan 133-06-2	10 lb			X
Malathion	100 lb			X

121-75-5				
Trade Secret	100 lb			X
Carbaryl 63-25-2	100 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Captan 133-06-2	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
Malathion 121-75-5	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Trade Secret	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Trade Secret	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Carbaryl 63-25-2	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

**US State Regulations**

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trade Secret	X	X	X
Captan 133-06-2	X	X	X
Malathion 121-75-5	X	X	X
Trade Secret	X	X	X
Trade Secret	X	X	X
Carbaryl 63-25-2	X	X	X

**International Regulations**

**Mexico - Grade**

Serious risk, Grade 3

Chemical Name	Carcinogenicity	Exposure Limits
Captan	A3	Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 15 mg/m <sup>3</sup>
Malathion		Mexico: TWA 10 mg/m <sup>3</sup>
Trade Secret		Mexico: TWA 100 ppm Mexico: TWA 435 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 655 mg/m <sup>3</sup>
Trade Secret		Mexico: TWA 50 ppm Mexico: TWA 245 mg/m <sup>3</sup> Mexico: STEL 75 ppm Mexico: STEL 365 mg/m <sup>3</sup>
Carbaryl		Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards 2	Flammability 3	Instability 0	<b>Physical and Chemical Properties -</b>
<b>HMIS</b>	Health hazards 2	Flammability 3	Physical hazards 0	<b>Personal protection X</b>

**Disclaimer**

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