

# SAFETY DATA SHEET

An Employee-Owned Company

Issue Date 10-Oct-2014 Revision Date 19-Nov-2019 Version 3

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

Product identifier.

Product Name Garden Guard® Insecticide

Other means of identification

Product Code PBI FP 535-3 EPA Pesticide Registration Number 53883-33-2217

Recommended use of the chemical and restrictions on use

Recommended Use Insecticide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address Company Name Manufacturer

PBI-Gordon Corporation
P.O. Box 860350
P.O. Box 860350
Shawnee, KS 66286
PBI-Gordon Corporation
PBI-Gordon Corporation
PBI-Gordon Corporation
PBI-Gordon Corporation
PO. Box 860350
P.O. Box 860350
Shawnee, KS 66286
Shawnee, KS 66286

Emergency telephone number

24 Hour Emergency Phone Number 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)

Skin Sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

### Label elements

#### **Emergency Overview**

## Signal word

Danger

### Hazard statements

- May cause an allergic skin reaction
- May cause cancer
- Causes damage to organs through prolonged or repeated exposure
- Very toxic to aquatic life with long lasting effects



Appearance Powder Physical state Solid Odor Odorless

## **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
Call a POISON CENTER or doctor if you feel unwell
Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention

#### **Precautionary Statements - Storage**

Store locked up

#### **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

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

## <u>Mixture</u>

Chemical name	CAS-No	Weight-%
Trade Secret	Trade secret	50 - 60%
Trade Secret	Trade secret	20 - 30%
Trade Secret	Trade secret	3 - 5%
Permethrin	52645-53-1	0.25

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### **Description of first aid measures**

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If symptoms persist, call a physician.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a

physician.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

**Ingestion** 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.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Wear personal protective clothing

(see section 8).

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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 in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u> Foam. Carbon dioxide (CO2). Dry chemical. Water spray.

<u>Unsuitable extinguishing media</u> No information available.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact. In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of

irritating and toxic gases and vapors.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak. Do not breathe dust.

**Environmental precautions** 

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas Do not flush into

surface water or sanitary sewer system See Section 12 for additional ecological information Avoid release to the environment Collect spillage Dispose of contents/container to an

approved waste disposal plant

**Other information** Refer to protective measures listed in Sections 7 and 8.

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

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

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. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take

off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trade Secret	TWA: 0.025 mg/m³ respirable	TWA: 50 μg/m³ TWA: 50 μg/m³	IDLH: 50 mg/m³ respirable dust
	particulate matter	excludes construction work,	TWA: 0.05 mg/m³ respirable dust
		agricultural operations, and	
		exposures that result from the	
		processing of sorptive clays	
		(vacated) TWA: 0.1 mg/m <sup>3</sup>	
		respirable dust	
		: (250)/(%SiO2 + 5) mppcf TWA	
		respirable fraction	
		: (10)/(%SiO2 + 2) mg/m³ TWA	
		respirable fraction	
Trade Secret	TWA: 3 mg/m <sup>3</sup> respirable	(vacated) TWA: 3 mg/m³ respirable	IDLH: 1500 mg/m <sup>3</sup>
	particulate matter	dust <1% Crystalline silica	TWA: 3 mg/m³ containing <1%
		TWA: 20 mppcf <1% Crystalline	Quartz respirable dust
		silica	
Trade Secret	TWA: 2 mg/m³ particulate matter	TWA: 15 mg/m³ total dust	TWA: 10 mg/m³ total dust
	containing no asbestos and <1%	TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m³ respirable dust
	crystalline silica, respirable	(vacated) TWA: 10 mg/m³ total dust	
	particulate matter	(vacated) TWA: 5 mg/m³ respirable	
		fraction	

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 Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Chemical resistant gloves.

**Skin and body protection** 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 Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateSolidAppearancePowderColorOff whiteOdorOdorless

Values Remarks • Method **Property** 

No data available None known рΗ

Melting point/freezing point None known

Boiling point / boiling range No data available None known Flash point No data available None known No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known

Flammability Limit in Air None known

Upper flammability limit: No data available Lower flammability limit: No data available

Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** None known No data available

Water solubility Slightly soluble No data available Solubility in other solvents

None known Partition coefficient No data available None known No data available None known **Autoignition temperature Decomposition temperature** No data available None known

Other Information

Oxidizing properties No information available **Liquid Density** 30-50 pounds/cubic foot **Bulk density** No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

No information available.

Stable under recommended storage conditions

#### Possibility of hazardous reactions

None under normal processing.

## **Hazardous polymerization**

Will not occur.

### Conditions to avoid

Keep out of reach of children.

#### Incompatible materials

None known based on information supplied.

## **Hazardous decomposition products**

None known.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

## **Product Information**

May cause irritation of respiratory tract. Inhalation

Eye contact May cause irritation.

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion May cause irritation.

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Permethrin	= 220 mg/kg (Rat) = 383 mg/kg (	= 1750 mg/kg (Rat) > 2 g/kg (	> 0.69 mg/L (Rat) 4 h
52645-53-1	Rat )	Rabbit) > 5000 mg/kg (Rat)	- ' '

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**Acute toxicity** 

Numerical measures of toxicity - Product Information

## **Unknown Toxicity**

40 % of the mixture consists of ingredient(s) of unknown toxicity

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

**Skin corrosion/irritation**No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

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
Trade Secret	A2	Group 1	Known	X
Permethrin 52645-53-1	-	Group 3	-	-

## Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

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

X - Present

Reproductive toxicity

STOT - single exposure

No information available.

No information available.

Avoid repeated exposure.

Target Organ Effects Eyes, lungs, Respiratory system, Gastrointestinal tract (GI).

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Permethrin	-	0.015: 96 h Cyprinus carpio	-	-

52645-53-1	mg/L LC50 flow-through	
	0.00188 - 0.00336: 96 h	
	Lepomis macrochirus mg/L	
	LC50 static 0.00079: 96 h	
	Lepomis macrochirus mg/L	
	LC50 flow-through 0.008 -	
	0.03: 96 h Pimephales	
	promelas mg/L LC50	
	flow-through 0.00049 -	
	0.00097: 96 h Oncorhynchus	
	mykiss mg/L LC50	
	flow-through 0.0017 -	
	0.0048: 96 h Oncorhynchus	
	mykiss mg/L LC50 static	
	0.001 - 0.009: 96 h	
	Pimephales promelas mg/L	
	LC50 static 0.0108: 96 h	
	Lepomis macrochirus mg/L	
	LC50 0.0052 - 0.0077: 96 h	
	Cyprinus carpio mg/L LC50	

Persistence and degradabilityNo information available.BioaccumulationNo information available.

Other adverse effects No information available.

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

IATA Limited quantity applies when the inner packaging weight is less than 5kg and the gross

package weight is less than 30kg.

UN number UN3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport hazard class(es) 9
Packing group |||

Special Provisions A158, A179, A97, A197

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Permethrin),

9, III

<u>IMDG</u>
Limited quantity applies when the inner packaging weight is less than 5kg and the gross

package weight is less than 30kg.

UN number UN3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport hazard class(es) 9
Packing group III
EmS-No. F-A, S-F

**Special Provisions** 274, 335, 966, 967, 969

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Description

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN), 9, III, MARINE POLLUTANT

## 15. REGULATORY INFORMATION

#### U.S. EPA Label Information

## EPA Pesticide Registration Number 53883-33-2217

## 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**

Caution

Keep out of the reach of children

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Humans: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. PHYSICAL AND CHEMICAL HAZARDS: Do not use or store near heat or open flame.

ENVIRONMENTAL HAZARDS: This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to run off into storm drains, drainage ditches, gutters and surface waters. Applying this product in calm weather when rain is not predicted within 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively, visiting the treatment area.

#### **International Inventories**

**TSCA** Listed DSL/NDSL Not Listed **EINECS/ELINCS** Not Listed **ENCS** Not Listed Not Listed **IECSC KECL** Not Listed **PICCS** Not Listed **AICS** 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

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **US State Regulations**

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

**US State Regulations** 

Chemical name	New Jersey	Massachusetts	Pennsylvania
Trade Secret	X	X	X
Trade Secret	Х	X	Х
Trade Secret	Х	X	Х
Permethrin 52645-53-1	Х	X	-

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

16. OTHER INFORMATION

Chronic Hazard Star Legend

\* = Chronic Health Hazard

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of PBI Gordon Corporation's knowledge. information and belief at the date of this publication. The information given is designed only as 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 other process, unless specified in the text. PBI GORDON CORPORATION MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. PBI Gordon Corporation assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

**End of Safety Data Sheet**