

# Safety Data Sheet

## 1600 X-CLUDE®

Revision date : 2009/12/18

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Version: 1.0

(30472312/SDS\_CPA\_US/EN)

51-03-6 Piperonylbutoxide

**CERCLA RQ**

1 LBS

**CAS Number**

121-21-1

**Chemical name**

pyrethrin I

**State regulations**

**State RTK**

MA, NJ, PA

**CAS Number**

8003-34-7

**Chemical name**

Pyrethrins

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## 16. Other Information

**Refer to product label for EPA registration number.**

Recommended use: insecticide

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### Local Contact Information

Product Stewardship

919 547-2000

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END OF DATA SHEET

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### Genetic toxicity

*Information on: pyrethrum*  
No mutagenic effects reported.

*Information on: Piperonyl butoxide*  
Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

*Information on: n-Octyl bicycloheptene dicarboximide*  
Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

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### Carcinogenicity

*Information on: pyrethrum*  
Not Likely to Be Carcinogenic to Humans.  
*Information on: Piperonyl butoxide*  
The US EPA has classified this substance with the rating of 'C', possible human carcinogen.

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### Reproductive toxicity

*Information on: pyrethrum*  
No reproductive toxic effects reported.  
*Information on: Piperonyl butoxide*  
No reproductive toxic effects reported.  
*Information on: n-Octyl bicycloheptene dicarboximide*  
No reproductive toxic effects reported.

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### Development:

*Information on: pyrethrum*  
No indications of a developmental toxic / teratogenic effect were seen in animal studies.  
*Information on: Piperonyl butoxide*  
No indications of a developmental toxic / teratogenic effect were seen in animal studies.  
*Information on: n-Octyl bicycloheptene dicarboximide*  
No indications of a developmental toxic / teratogenic effect were seen in animal studies.  
*Information on: Distillates (petroleum), hydrotreated light*  
No indications of a developmental toxic / teratogenic effect were seen in animal studies. Literature data.

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## 12. Ecological Information

### Fish

*Information on: pyrethrum*  
Acute:  
Oncorhynchus mykiss/LC50 (96 h): 0.0051 mg/l

*Information on: Piperonyl butoxide*  
Acute:  
other Oncorhynchus mykiss/LC50 (96 h): 6.12 mg/l

*Information on: n-Octyl bicycloheptene dicarboximide*  
Acute:  
Oncorhynchus mykiss/LC50 (96 h): 1.4 mg/l

*Information on: Distillates (petroleum), hydrotreated light*  
Acute:

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### Temperature tolerance

Protect from temperatures above: 130 °F

Explosive at or above indicated temperature.

## 8. Exposure Controls and Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

### Components with workplace control parameters

Pyrethrins	OSHA	PEL 5 mg/m <sup>3</sup> ;
	ACGIH	TWA value 5 mg/m <sup>3</sup> ;
propane	OSHA	PEL 1,000 ppm 1,800 mg/m <sup>3</sup> ;
	ACGIH	TWA value 1,000 ppm ;
Distillates (petroleum), hydrotreated light	ACGIH	TWA value 200 mg/m <sup>3</sup> Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. Skin Designation Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through the skin.

### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### Personal protective equipment

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### **General safety and hygiene measures:**

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS  
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

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Caused skin sensitization in animal studies.

### Signs and symptoms of overexposure:

Vomiting may cause aspiration pneumonia due to the ingredients.

### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
8003-34-7	0.3 %	Pyrethrins
51-03-6	2.2 %	Piperonylbutoxide
113-48-4	0.336 %	n-Octyl bicycloheptene dicarboximide
64742-47-8	> 10.0 %	Distillates (petroleum), hydrotreated light
68512-91-4	>= 85.0 %	Hydrocarbons, C3 - C4 Proprietary ingredients

### 4. First-Aid Measures

#### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm.

#### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

#### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

#### If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

#### Note to physician

Treatment:

Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

### 5. Fire-Fighting Measures

Flash point:

A flash point determination is unnecessary due to the high water content.

NFPA 30 B Flammability: Level 1 aerosol

Lower explosion limit: 1.8 %(V)

(air)

Upper explosion limit: 9.5 %(V)

(air)

#### **Suitable extinguishing media:**

foam, dry extinguishing media, carbon dioxide, water spray

#### **Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide,

The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure. Risk of explosion at excessive temperatures.