

# CB-80<sup>TM</sup>

## INSECTICIDE

### INSECTICIDE WITH PYRETHRINS

Contains Pyrethrins, A Botanical Insecticide

Provides Rapid Control of Residential, Industrial, and Barn Pests. Excellent Flushing, 8 to 1 Synergist Ratio, Quick Knockdown, Nonaqueous, Highly Active Solvent System, Fast Knockdown and Kill

**KILLS and REPELS:** Flies, Mosquitoes, Wasps, Gnats, Cockroaches, Ants, Crickets, Spiders, Silverfish, Small Flying Moths, Indianmeal Moths, Angoumois Grain Moths, Carpet Beetles, Confused Flour Beetles, Sawtoothed Grain Beetles, Granary Weevils, Rice Weevils, Red Flour Beetles, Grain Mites, Bedbugs, Fleas, Barn Flies, Deer Flies, Stable Flies and Horn Flies

**FOR USE in** Homes, Offices, Hotels, Motels, Schools, Hospitals, Nursing Homes, Day-care Centers, Factories, Warehouses, Stores, Supermarkets, Restaurants, Food Handling Establishments, Commercial or Institutional Kitchens, Food Processing Plants, Bottling Plants, Transportation Equipment (Automobiles, Buses, Trucks, Trailers, Boats, Ships, Trains, Aircraft (Cargo areas only)), Barns, Stables, Farms, Animal Quarters, Milkrooms, and Poultry Houses

**CONTAINS NO CFCs OR OTHER OZONE DEPLETING SUBSTANCES.**

**FEDERAL REGULATIONS PROHIBIT CFC PROPELLANTS IN AEROSOLS.**

**Manufactured By:**



FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103

**Net Weight: 17 oz/482 g**

EPA Reg. No. 279-3393

EPA Est. No. 9444-LA-1

#### ACTIVE INGREDIENTS:

|                                      |               |
|--------------------------------------|---------------|
| Pyrethrins .....                     | 0.50%         |
| Piperonyl Butoxide, technical* ..... | 4.00%         |
| <b>OTHER INGREDIENTS .....</b>       | <b>95.50%</b> |
|                                      | 100.00%       |

\*Equivalent to 3.2% (butylcarbityl) (6-propylpiperonyl) ether and 0.8% related compounds.

### KEEP OUT OF REACH OF CHILDREN CAUTION

See Back Panel for Additional Precautionary Statements.

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans & Domestic Animals CAUTION

Harmful if swallowed or absorbed through skin. Avoid breathing of vapors or spray mist. Avoid contact with skin and eyes. In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation persists.

Do not apply directly to food. Volumetric Treatment of Food Areas and/or Food Handling Establishments: Cover or remove any food and food processing equipment during application. Do not apply while food processing is underway. After space spraying food processing plants, thoroughly wash all equipment, benches, shelving, etc. where exposed food will be handled with an effective cleaning compound and rinse with potable water before use. Volumetric Treatment in Homes: In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Before spraying in Medical Care Areas, remove all patients. After spraying, ventilate area for 2 hours before returning patients.

Remove pets, birds and cover fish aquariums before spraying.

##### PHYSICAL OR CHEMICAL HAZARDS

**Flammable.** Contents under pressure. Keep away from heat, sparks and open flames. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Do not spray on plastic, painted or varnished surfaces or directly into electronic equipment such as radios, TVs, computers, etc.

**[For Cylinder Application:]** Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

Do not spray on plastic, painted or varnished surfaces or directly into electronic equipment such as radios, TVs, computers, etc.

##### FIRST AID

**If Swallowed:** Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If In Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**HOTLINE NUMBER** - Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information, call (800) 331-3148.

For product information call (800) 321-1FMC (1362).

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**For Cylinder Applications:** Use appropriate equipment, with fogging tips and crack & crevice extension tips for voids. Place injection tips into cracks, crevices, holes and small openings. Release approximately one-second of product. Repeat as necessary. Several holes may be required in long-running voids.

**Applications in Aircraft:** This product can be applied to cargo areas of aircraft only. Do not use in aircraft cabins.

**FLYING INSECTS: Flies, Mosquitoes, Small Flying Moths, Wasps, Gnats** – Calculate cubic feet of space to be treated. Close all doors and windows. Spray in sweeping motion to all parts of the room. Apply for 2-3 seconds per 1,000 cubic feet of space. Sweep up and destroy fallen insects. Repeat treatment as necessary.

**CRAWLING INSECTS: Cockroaches, Ants, Spiders, Silverfish - General Volumetric Treatment:** Open cabinets and doors in area to be treated. Shut off air conditioners, fans, and close doors and windows before spraying. Spray for 20 seconds per 1,000 cubic feet of space. Direct spray toward areas suspected of harboring insects. Spray into hiding places such as cracks and crevices, behind sinks, cabinets, along baseboards and floors, around drains and plumbing, hitting insects with spray whenever possible. Keep area closed for 15 minutes. Open and ventilate before reoccupying. Repeat treatment as necessary.

**FOR COCKROACHES:** For best results, spray directly on cockroaches and thoroughly spray all parts of the room suspected of harboring these pests. Special attention should be paid to cracks, hidden surfaces, under sinks, behind stoves and refrigerators, food storage areas, and wherever these pests are suspected of hiding. Also, spray around door- and windowframes. Repeat as necessary.

**CRACK & CREVICE APPLICATION:** Food Areas and/or Food Handling Establishments—Spray in cracks and crevices, using the crack and crevice nozzle provided. A crack and crevice application may be done in food areas and/or food handling establishments while these facilities are in operation by taking extreme care not to contaminate surfaces.

**FOR SPIDERS AND SILVERFISH:** For control of these insects, frequent and repeated spraying of baseboards, windows, doorframes, bookcases and storage areas should be made. For best results, spray directly on insects.

**FOR CRICKETS:** Spray thoroughly and frequently behind stoves, refrigerators, under cabinets, in food storage areas, and especially in closets, basements, and other damp areas. For best results, spray directly on insects.

**FOR ANTS:** Spray ant trails, nests and points of entry. For initial clean-up, apply for 10-15 seconds per 100 square feet of floor area. Then periodically spray as a space treatment for 3-5 seconds per 100 cubic feet of space.

**FOR INDIANMEAL MOTHS AND ANGOUMOIS GRAIN MOTHS:** Close doors and windows. Direct spray into all parts of room especially around stored food product containers, pallets and darkened areas. Spray 7 to 10 seconds for each 1,000 cubic feet of space. Keep area closed for 15 minutes following treatment. Repeat application weekly or as needed.

**FOR CARPET BEETLES:** Spray directly on beetles, baseboards, floors, shelves and carpets. Repeat treatment as necessary.

**FOR CONFUSED FLOUR BEETLES, SAWTOOTHED GRAIN BEETLES, GRANARY WEEVILS, RICE WEEVILS, RED FLOUR BEETLES, GRAIN MITES:** Spray into cracks and crevices, processing and handling equipment, around cartons or containers and other areas where these insects tend to congregate. Spray 30 seconds for each 100 square feet of surface. Keep area closed for 45 minutes to 1 hour after treatment. Repeat application as necessary. Infested stored food products in the home should be disposed of.

**FOR BEDBUGS:** Spray mattresses, particularly around tufts and seams. Take beds apart and spray into all joints. Treat baseboards, moldings and floors. Repeat treatment as necessary.

**FOR FLEAS:** Spray sleeping quarters, bedding, floor and floor covering where pets are kept. Repeat as necessary. For best results, use with a recommended pet spray on pets.

**HOME USE:** To kill Cockroaches, Spiders, Silverfish, Wasps, Hornets, Crickets—Spray the insect directly when possible and spray all probable hiding places such as cracks, crevices, baseboards, sinks, cabinets, shelves and under appliances. Repeat as necessary.

**FOOD PROCESSING PLANT USE:** To kill Cockroaches, Spiders, Silverfish, Wasps, Hornets, Crickets—Spray the insect directly when possible. Spray all probable hiding places such as cracks, crevices, baseboards, sinks, cabinets, shelves, under appliances, and in food

storage areas. To Kill Flies, Mosquitoes, Gnats, Small Flying Moths – Close all windows and doors. Direct spray upward, spraying for 2-3 seconds for 1,000 cubic feet of space. Do not remain in treated areas. Ventilate after treatment.

**VOLUMETRIC TREATMENT FOR INACCESSIBLE VOIDS** (Attics, False Ceilings, Wall and Equipment Voids): For crack and crevice application, calculate void volume in cubic feet. Treat 20 seconds per 1,000 cubic feet. Repeat as necessary.

Note, when using this product in an enclosed area, such as milkroom, barn or stable, remove animals before spraying.

**DAIRY FARM USE:** Milking Parlor and Milkroom: Close all windows and doors. Direct spray upwards, spraying for 2-3 seconds per 1,000 cubic feet of space. Do not remain in treated areas. Ventilate after treatment. Cover milking utensils and milk to prevent contamination from spray or dead and falling insects.

**ANIMAL USE:** Thoroughly spray entire animal from approximately 2 feet distance. Do not spray directly toward animal's eyes. Spot treat withers, shoulders, and back where saliva accumulates from head tossing.

**BEEF CATTLE OPERATIONS:** In barns, close all windows and doors. Spray at the rate of 2-3 seconds per 1,000 cubic feet of space. Do not remain in treated area. After 15 minutes, ventilate the area. Repeat application as necessary.

**ANIMAL USE:** For animal application, thoroughly spray entire animal from approximately 2 feet distance. Do not spray directly toward animal's face or eyes. Repeat application daily or as necessary.

**STANCHION BARN USE:** Walk behind animals and direct spray over backs, allowing 5 seconds per animal. For most effective results, apply each morning.

**HORSE BARN OR STABLES:** In horse and pony barns, close all windows and doors. Spray at the rate of 2-3 seconds per 1,000 cubic feet of space. Do not remain in the treated area. After 15 minutes, ventilate the area. Repeat the application as necessary.

**ANIMAL USE:** For animal application, lightly mist over back of horses and ponies from a distance of 2 feet. Do not spray directly toward the animal's face or eyes. Repeat application daily or as necessary.

**HOG AND SWINE OPERATIONS:** In hog houses, close all doors and windows. Spray at the rate of 2-3 seconds per 1,000 cubic feet of space. Do not remain in treated area. After 15 minutes, ventilate the area. Repeat the application as necessary.

**SWINE/ANIMAL USE:** For animal application, direct spray over back of hogs and spray for 5 seconds per hog. Do not spray directly towards the animal's face or eyes. Repeat application daily or as necessary.

**POULTRY OPERATIONS:** In poultry houses, close all windows and doors. Spray roosts, walls, nests, and cages thoroughly. Spray at the rate of 2-3 seconds per 1,000 cubic feet of space. Do not remain in treated areas. After 15 minutes, ventilate the area. Treat daily or as necessary.

## STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Storage:** Do not store near heat or open flame. Store in cool dry area away from children.

**Disposal:** Do not puncture or incinerate. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.



**SAFETY DATA SHEET**  
CB-80 Insecticide

SDS # : 6545-A  
Revision date: 2017-05-23  
Format: NA  
Version 2



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** CB-80 Insecticide

**Other means of identification**

**Product Code(s)** 6545-A

**Synonyms** Pyrethrins and Pyrethroids, Pyrethrum,  
, PIPERONYL BUTOXIDE: Butylcarbityl(6-propylpiperonyl) ether, 1,3-Benzodioxole,  
5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

**Active Ingredient(s)** Piperonyl Butoxide, Pyrethrins

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

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label

**Supplier Address**

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

**Emergency telephone number**

For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527 3887 (CHEMTREC - Alternate)

Medical Emergencies:  
1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)  
1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

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

|  |            |
|--|------------|
| Acute toxicity - Inhalation (Dusts/Mists)        | Category 4 |
| Serious eye damage/eye irritation                | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable Aerosols                               | Category 2 |

**GHS Label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

**Warning**

**Hazard Statements**  
 H332 - Harmful if inhaled  
 H319 - Causes serious eye irritation  
 H335 - May cause respiratory irritation  
 H336 - May cause drowsiness or dizziness  
 H223 - Flammable aerosol  
 H229 - Pressurized container: May burst if heated

**Precautionary Statements - Prevention**

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P211 - Do not spray on an open flame or other ignition source
- P251 - Do not pierce or burn, even after use
- P280 - Wear eye protection/ face protection

**Precautionary Statements - Response**

- 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 + P313 - If eye irritation persists: Get medical advice/ attention
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 - Call a POISON CENTER or doctor if you feel unwell
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P331 - Do NOT induce vomiting

**Precautionary Statements - Storage**

- P405 - Store locked up
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

**Precautionary Statements - Disposal**

- P501 - Dispose of contents/container according to label directions

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

May be harmful if swallowed. Harmful to aquatic life with long lasting effects.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name      | CAS-No  | Weight % |
|--------------------|---------|----------|
| Piperonyl butoxide | 51-03-6 | 4        |

|   |            |       |
|---|------------|-------|
| Pyrethrins                                | 8003-34-7  | 0.5   |
| 1,1-Difluoroethane                        | 75-37-6    | 50-70 |
| Isopropanol                               | 67-63-0    | 15-30 |
| Petroleum distillates, hydrotreated light | 64742-47-8 | 1-5   |

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

|   |  |
|---|--|
| <b>Eye Contact</b>  | Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.              |
| <b>Skin Contact</b>   | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.  |
| <b>Inhalation</b>   | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.                                 |
| <b>Ingestion</b>  | Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not induce vomiting or give anything by mouth to an unconscious person. |
| <b>Most important symptoms and effects, both acute and delayed</b>                          | Central nervous system effects.  |
| <b>Indication of immediate medical attention and special treatment needed, if necessary</b> | Treat symptomatically  |

**5. FIRE-FIGHTING MEASURES**

|  |   |
|--|---|
| <b>Suitable Extinguishing Media</b>                          | Foam. carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray.   |
| <b>Specific Hazards Arising from the Chemical</b>            | Contents under pressure.  |
| <b>Explosion data</b>  |   |
| <b>Sensitivity to Mechanical Impact</b>                      | No information available.   |
| <b>Sensitivity to Static Discharge</b>                       | No information available.   |
| <b>Protective equipment and precautions for firefighters</b> | Isolate fire area. Evaluate upwind. As in any fire, wear self-contained breathing apparatus and full protective gear. |

**6. ACCIDENTAL RELEASE MEASURES**

|                                  |  |
|----------------------------------|--|
| <b>Personal Precautions</b>      | Isolate and post spill area. Remove all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. If ventilation is not possible wear full protection suit and chemical protective equipment. |
| <b>Other</b>                     | For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.   |
| <b>Environmental Precautions</b> | Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.  |
| <b>Methods for Containment</b>   | Prevent further leakage or spillage if safe to do so.  |
| <b>Methods for cleaning up</b>   | Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with water and soap. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.           |

Rinsate may be disposed at a waste water treatment plant.

**7. HANDLING AND STORAGE**

**Handling** Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 130°F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

**Storage** Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

**Incompatible products** Strong oxidizing agents. Bases. Powdered earth metals.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

| Chemical name  | ACGIH TLV                          | OSHA PEL  | NIOSH   | Mexico  |
|--|------------------------------------|---|---|---|
| Pyrethrins (8003-34-7)                                 | TWA: 5 mg/m <sup>3</sup>           | TWA: 5 mg/m <sup>3</sup>  | IDLH: 5000 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>  | Mexico: TWA 5 mg/m <sup>3</sup><br>Mexico: STEL 10 mg/m <sup>3</sup>  |
| Isopropanol (67-63-0)                                  | STEL 400 ppm<br>TWA: 200 ppm       | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup>  | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> | Mexico: TWA 400 ppm<br>Mexico: TWA 980 mg/m <sup>3</sup><br>Mexico: STEL 500 ppm<br>Mexico: STEL 1225 mg/m <sup>3</sup> |
| Chemical name  | British Columbia                   | Quebec  | Ontario TWAEV   | Alberta   |
| Pyrethrins (8003-34-7)                                 | TWA: 5 mg/m <sup>3</sup>           | TWA: 5 mg/m <sup>3</sup>  | TWA: 5 mg/m <sup>3</sup>  | TWA: 5 mg/m <sup>3</sup>  |
| Isopropanol (67-63-0)                                  | TWA: 200 ppm<br>STEL: 400 ppm      | TWA: 400 ppm<br>TWA: 985 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1230 mg/m <sup>3</sup> | TWA: 200 ppm<br><br>STEL: 400 ppm   | TWA: 200 ppm<br>TWA: 492 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 984 mg/m <sup>3</sup>                              |
| Petroleum distillates, hydrotreated light (64742-47-8) | TWA: 200 mg/m <sup>3</sup><br>Skin | -   | -   | -   |

Appropriate engineering controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

**Skin and Body Protection** Wear long-sleeved shirt, long pants, socks, and shoes.

**Hand Protection** Protective gloves

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.



**General information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                     |   |
|-------------------------------------|---|
| <b>Appearance</b>                   | Yellow, Aerosolized liquid                          |
| <b>Physical State</b>               | Liquid Aerosol                                      |
| <b>Color</b>                        | Yellow  |
| <b>Odor</b>                         | Pyrethrins  |
| <b>Odor threshold</b>               | No information available                            |
| <b>pH</b>                           | No information available                            |
| <b>Melting point/freezing point</b> | Not applicable                                      |
| <b>Boiling Point/Range</b>          | No information available                            |
| <b>Flash point</b>                  | 14.4 °C / 58 °F (Flame extension 5" - no flashback) |
| <b>Evaporation Rate</b>             | No information available                            |
| <b>Flammability (solid, gas)</b>    | No information available                            |
| <b>Flammability Limit in Air</b>    |   |
| <b>Upper flammability limit:</b>    | No information available                            |
| <b>Lower flammability limit:</b>    | No information available                            |
| <b>Vapor pressure</b>               | No information available                            |
| <b>Vapor density</b>                | No information available                            |
| <b>Density</b>                      | 7.29 lb/gal (0.874 g/cm <sup>3</sup> )              |
| <b>Specific gravity</b>             | 0.8746  |
| <b>Water solubility</b>             | No information available                            |
| <b>Solubility in other solvents</b> | No information available                            |
| <b>Partition coefficient</b>        | No information available                            |
| <b>Autoignition temperature</b>     | No information available                            |
| <b>Decomposition temperature</b>    | No information available                            |
| <b>Viscosity, kinematic</b>         | No information available                            |
| <b>Viscosity, dynamic</b>           | No information available                            |
| <b>Explosive properties</b>         | No information available                            |
| <b>Oxidizing properties</b>         | No information available                            |
| <b>Molecular weight</b>             | No information available                            |
| <b>Bulk density</b>                 | No information available                            |

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Reactivity</b>                         | None under normal use conditions.                                 |
| <b>Chemical Stability</b>                 | Stable under recommended storage conditions.                      |
| <b>Possibility of Hazardous Reactions</b> | None under normal processing.                                     |
| <b>Hazardous polymerization</b>           | Hazardous polymerization does not occur.                          |
| <b>Conditions to avoid</b>                | Keep away from open flames, hot surfaces and sources of ignition. |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Bases. Powdered earth metals.            |
| <b>Hazardous Decomposition Products</b>   | Carbon oxides (COx), hydrogen fluoride, Carbonyl fluoride.        |

## 11. TOXICOLOGICAL INFORMATION

### Product Information

|                        |   |
|------------------------|---|
| <b>LD50 Oral</b>       | 2,370 mg/kg (rat)                       |
| <b>LD50 Dermal</b>     | > 2000 mg/kg (rabbit)                   |
| <b>LC50 Inhalation</b> | 2.5 mg/L 4 hr (rat)                     |
| <b>Eye Contact</b>     | Slightly or non-irritating (rabbit)     |
| <b>Skin Contact</b>    | Slightly or non-irritating (rabbit)     |
| <b>Sensitization</b>   | May cause sensitization by skin contact |

| Chemical name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------|-----------|-------------|-----------------|
|---------------|-----------|-------------|-----------------|

**CB-80 Insecticide**

**SDS # : 6545-A**  
**Revision date: 2017-05-23**  
**Version 2**

|                                 |   |   |                                       |
|---------------------------------|---|---|---------------------------------------|
| Piperonyl butoxide<br>(51-03-6) | = 4570 mg/kg ( Rat ) = 6150 mg/kg ( Rat ) | > 7950 mg/kg ( Rat )                        |                                       |
| Pyrethrins<br>(8003-34-7)       | = 200 mg/kg ( Rat )                       | = 1350 mg/kg ( Rat ) = 300 mg/kg ( Rabbit ) | = 3.4 mg/L ( Rat ) 4 h                |
| Isopropanol<br>(67-63-0)        | = 1870 mg/kg ( Rat )                      | = 4059 mg/kg ( Rabbit )                     | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h |

**Information on toxicological effects**

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

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

**Mutagenicity** Piperonyl butoxide ether may affect mammalian liver microsomal detoxification enzymes. n-Octyl bicycloheptene dicarboximide was negative in a chromosome aberration assay, Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).  
**Carcinogenicity** No information available.  
**Reproductive toxicity** Isopropanol has been reported to cause teratogenicity in laboratory animals.  
**Developmental toxicity** Not classified.  
**STOT - single exposure** Not classified.  
**STOT - repeated exposure** Mice fed 0.3 or 0.9% piperonyl butoxide in the diet for 20 days had increased liver weight and other signs of liver toxicity. Male rats given up to 2.4% of piperonyl butoxide in the diet for up to 12 weeks had clinical and histologic signs of liver damage; the highest dose group showed preneoplastic changes, including enlargement of hepatocyte nuclei and multinucleated cells. Kidney damage was also seen.  
**Target organ effects** The product does not present an aspiration pneumonia hazard.

**Aspiration hazard**

| Chemical name                 | ACGIH | IARC     | NTP | OSHA |
|-------------------------------|-------|----------|-----|------|
| Piperonyl butoxide<br>51-03-6 |       | Group 3  |     |      |
| Pyrethrins<br>8003-34-7       |       | Group 2A |     |      |
| Isopropanol<br>67-63-0        |       | Group 3  |     |      |

**Legend:**  
**IARC (International Agency for Research on Cancer)**  
 Group 2A - Probably Carcinogenic to Humans  
 Group 3 - Not classifiable as to its carcinogenicity to humans

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

| <b>Piperonyl butoxide (51-03-6)</b> |          |                |       |        |
|-------------------------------------|----------|----------------|-------|--------|
| Active Ingredient(s)                | Duration | Species        | Value | Units  |
| Piperonyl Butoxide                  | LC50     | Fish           | 3.94  | ppm    |
|                                     | LD50     | Bee            | 25    | µg/bee |
|                                     | LD50     | Bobwhite quail | >2250 | mg/kg  |
|                                     | LD50     | Mallard duck   | >5620 | ppm    |

| Chemical name           | Toxicity to algae   | Toxicity to fish   | Toxicity to daphnia and other aquatic invertebrates |
|-------------------------|---|--|---|
| Isopropanol<br>67-63-0  | 96 h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72 h EC50: > 1000 mg/L (Desmodesmus subspicatus) | 96 h LC50: = 9640 mg/L (Pimephales promelas) flow-through 96 h LC50: > 1400000 µg/L (Lepomis macrochirus) 96 h LC50: = 11130 mg/L (Pimephales promelas) static | 48 h EC50: = 13299 mg/L (Daphnia magna)             |
| Pyrethrins<br>8003-34-7 |   | 96 h LC50: = 0.054 mg/L (Oncorhynchus mykiss) 96 h LC50:   |   |



|  |  |  |  |
|--|--|--|--|
|  |  | 0.02 - 0.03 mg/L (Oncorhynchus mykiss) static 96 h LC50: = 0.074 mg/L (Lepomis macrochirus) 96 h LC50: 0.0425 - 0.121 mg/L (Pimephales promelas) flow-through 96 h LC50: 0.003 - 0.0046 mg/L (Lepomis macrochirus) flow-through 96 h LC50: 0.224 - 0.458 mg/L (Pimephales promelas) static 96 h LC50: 0.0031 - 0.0038 mg/L (Oncorhynchus mykiss) flow-through 96 h LC50: 0.0322 - 0.0472 mg/L (Lepomis macrochirus) static |  |
|--|--|--|--|

**Persistence and degradability** No information available.  
**Bioaccumulation** No information available.  
**Mobility** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated Packaging** Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

**14. TRANSPORT INFORMATION**

DOT

**Packaging Type** 17 oz. Container  
**UN/ID no** 17 oz. Container: UN1950  
 13 lb. Cylinder: UN1954  
**Proper Shipping Name** 17 oz. Container: Consumer Commodity  
 13 lb. Cylinder: Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)  
**Hazard class** 17 oz. Container: ORM-D  
 13 lb. Cylinder: 2.1

TDG

**UN/ID no** 17 oz. Container: UN1950  
 13 lb. Cylinder: UN1954  
**Proper Shipping Name** 17 oz. Container: Aerosols  
 13 lb. Cylinder: Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)  
**Hazard class** 2.1

ICAO/IATA

**UN/ID no** 17 oz. Container ID8000  
 13 lb. Cylinder: UN 1954  
**Proper Shipping Name** 17 oz. Container: Consumer Commodity  
 13 lb. Cylinder: Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)  
**Hazard class** 17 oz. Container: 9  
 13 lb. Cylinder: 2.1

IMDG/IMO

**UN/ID no** 17 oz. Container: UN1950  
 13 lb. Cylinder: UN1954  
**Proper Shipping Name** 17 oz. Container: Aerosols  
 13 lb. Cylinder: Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)  
**Hazard class** 2.1

## 15. REGULATORY INFORMATION

### U.S. 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                | CAS-No  | Weight % | SARA 313 - Threshold Values % |
|------------------------------|---------|----------|-------------------------------|
| Piperonyl butoxide - 51-03-6 | 51-03-6 | 4        | 1.0                           |
| Isopropanol - 67-63-0        | 67-63-0 | 15-30    | 1.0                           |

#### **SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic health hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

#### **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 |
|-------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Pyrethrins<br>8003-34-7 | 1 lb                        |                        |                           |                            |

#### **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 | Extremely Hazardous Substances RQs |
|-------------------------|--------------------------|------------------------------------|
| Pyrethrins<br>8003-34-7 | 1 lb<br>0.454 kg         |                                    |

#### **FIFRA Information**

*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:*

#### **CAUTION**

*Contains petroleum distillates. Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Prolonged or repeated contact with the skin may cause allergic reactions in some individuals*

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

| Chemical name                 | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| Piperonyl butoxide<br>51-03-6 | X          |               |              |
| Pyrethrins                    | X          | X             | X            |

**CB-80 Insecticide**

**SDS # : 6545-A**  
**Revision date: 2017-05-23**  
**Version 2**

|                               |   |   |   |
|-------------------------------|---|---|---|
| 8003-34-7                     |   |   |   |
| 1,1-Difluoroethane<br>75-37-6 | X | X |   |
| Isopropanol<br>67-63-0        | X | X | X |

**International Inventories**

| Chemical name  | TSCA<br>(United States) | DSL<br>(Canada) | EINECS/ELINCS<br>(Europe) | ENCS<br>(Japan) | China<br>(IECSC) | KECL (Korea) | PICCS<br>(Philippines) | AICS<br>(Australia) |
|--|-------------------------|-----------------|---------------------------|-----------------|------------------|--------------|------------------------|---------------------|
| Piperonyl butoxide<br>51-03-6                              | X                       | X               | X                         | X               | X                | X            | X                      | X                   |
| Pyrethrins<br>8003-34-7                                    |                         | X               | X                         |                 | X                | X            | X                      | X                   |
| 1,1-Difluoroethane<br>75-37-6                              | X                       | X               | X                         | X               | X                | X            | X                      | X                   |
| Isopropanol<br>67-63-0                                     | X                       | X               | X                         | X               | X                | X            | X                      | X                   |
| Petroleum distillates,<br>hydrotreated light<br>64742-47-8 | X                       | X               | X                         |                 | X                | X            | X                      | X                   |

**Mexico - Grade** Moderate risk, Grade 2

| Chemical name | Carcinogen Status | Mexico  |
|---------------|-------------------|---|
| Pyrethrins    |                   | Mexico: TWA 5 mg/m <sup>3</sup><br>Mexico: STEL 10 mg/m <sup>3</sup>  |
| Isopropanol   |                   | Mexico: TWA 400 ppm<br>Mexico: TWA 980 mg/m <sup>3</sup><br>Mexico: STEL 500 ppm<br>Mexico: STEL 1225 mg/m <sup>3</sup> |

| Chemical name | Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use - Threshold Quantities | Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities |
|---------------|---|--|
| Pyrethrins    | 500<br>2500 kg/yr   | 500 kg/yr  |

**CANADA**

**WHMIS Statement**

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**WHMIS Hazard Class**

- A - Compressed gases
- B5 - Flammable aerosol
- D1B - Toxic materials
- D2B - Toxic materials



**16. OTHER INFORMATION**

|             |                   |                |                   |                       |
|-------------|-------------------|----------------|-------------------|-----------------------|
| <b>NFPA</b> | Health Hazards 2  | Flammability 3 | Instability 0     | Special Hazards -     |
| <b>HMIS</b> | Health Hazards 2* | Flammability 3 | Physical hazard 0 | Personal Protection X |

**CB-80 Insecticide**

**SDS # : 6545-A**  
**Revision date: 2017-05-23**  
**Version 2**

**Revision date:** 2017-05-23  
**Reason for revision:** (M)SDS sections updated

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**End of Safety Data Sheet**