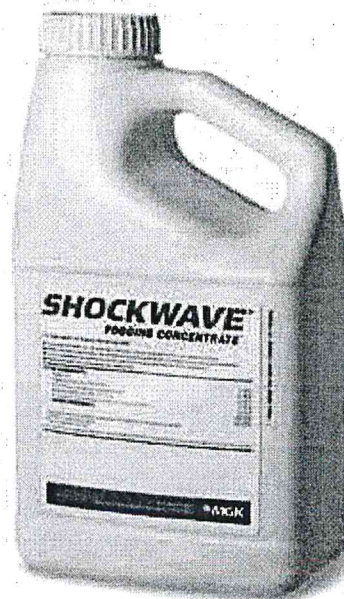


SHOCKWAVE®

FOGGING CONCENTRATE

Specimen Label

- Provides flushing action and quick knockdown plus residual activity for indoor use as a ULV, space, area or contact spray.
- Contains NYGUARD® insect growth regulator similar to the naturally occurring insect growth hormones that interfere with insect growth and development.
- Continuous protection against stored product pests for 3 months.
- Keeps working on listed cockroaches for 180 days (6 months)
- Works to break the life cycle of listed insects.
- For use indoors and outdoors as a ULV, space, area, contact spray or thermal fog for listed insects in areas specified on the label.
- For use in and around the home and food and non-food areas of food processing plants and food service establishments.



KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside for first aid and precautionary statements.

ACTIVE INGREDIENTS:

Pyrethrins.....	1.00%
*Piperonyl butoxide, Technical	2.00%
**N-Octyl bicycloheptene dicarboximide.....	3.00%
Esfenvalerate (CAS #66230-04-4).....	0.20%
2-[1-methyl-2-(4-phenoxyphenoxy) ethoxy] pyridine.....	0.10%
***OTHER INGREDIENTS	93.70%
	100.00%

*Equivalent to 1.6% (butylcarbityl) (6-propylpiperonyl) ether and 0.4% related compounds

**MGK® 264, Insecticide Synergist

*** Contains petroleum distillate

DIRECTIONS FOR USE

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

READ ALL DIRECTIONS COMPLETELY BEFORE USE

In Hospitals: Patients should be removed from room prior to treatment. Rooms should be ventilated for two hours after spraying. Do not return patients to room until after ventilation.

Do not use in nurseries or rooms where infants, ill, or aged persons are present.

GENERAL:

SHOCKWAVE® Fogging Concentrate is designed for use undiluted in mechanical sprayers which gives particles of aerosol size. It can be diluted with refined kerosenes, which meet Food Additive Regulation as defined by CFR Title

21, 172.884, and applied in fogging equipment that give larger than aerosol particle size. It can also be diluted with the oil specified above and applied as a contact spray to kill crawling insects shown later on this label.

Do not apply directly to food. Do not allow spray to contact stored food or food contact surfaces. Do not apply as a space spray while food processing is underway. Cover or wash all food processing surfaces and equipment with an effective cleaning compound followed by a potable water rinse. In the home, cover all food processing surfaces, dishes and utensils before treatments or thoroughly wash before use following treatment.

INDOOR AREAS for use in and around:

Animal Areas & Quarters	Fruit Packing Sheds	Office Buildings
Animal Control Centers	Funeral Parlors	Other Public Buildings
Animal Shelters	Garages	Parking Garages
Apartments	Garbage Bins	Pool Halls
Arcades	Garbage Cans	Poultry Houses
Attics	Garbage Compactors	Prisons
Auditoriums	Garbage Trucks	Public Storage
Bakeries	Gas Stations	Railroad Cars
Bars	Grain Elevators	Recreational Vehicles
Basements	Grain Harvesting & Handling Equipment	Research Animal Quarters
Bathrooms	Grain Mills	Restaurants
Beverage Plants	Granaries	Retail Stores
Boats	Grocery Stores	Rice Mills
Bottling Plants	Grocery Warehouses	Schools
Breweries	Homes	Ship Holds
Brewery Warehouses	Horse Stables & Barns	Ships
Buildings	Horse Trailers	Smoke Shops
Buses	Hospices	Sports Stadiums
Cabinets	Hospitals	Stables
Cabins	Hotels	Storage Bins (areas)
Cafeterias	Indoor Eating Establishments	Stored Food in Multi-walled Paper or Cloth Bags
Campers	Industrial Installations	Stores
Canneries	Institutional Dining Areas	Supermarkets
Churches	Institutions	Taverns
Circus Tents	Jails	Textile Mills & Warehouses
City Missions	Kennels	Theaters
Closets	Laboratories	Tobacco Factories
Club House	Laundromats	Tobacco Warehouses
Commercial Buildings	Lavatories	Tool Sheds
Communication Centers	Libraries	Trains
Concession Stands	Liquor Stores	Transportation Equipment
Condominiums	Locker Rooms	Truck Trailers
Court Houses	Marinas	Trucks
Crawl Spaces	Mausoleums	Tunnels
Crematoriums	Meat Packing Plants	Utilities
Day Care Centers	Mess Halls	Utility Rooms
Delicatessens	Mini-Storages	Vending Machines
Department Stores	Mobile Canteens	Veterinary Hospitals
Diners	Mobile Homes	Wall & Equipment Voids
Dog Houses	Morgues	Warehouses
Drug Stores	Mortuaries	Washrooms
Dumpsters	Motels	Wholesale Stores
Dwellings	Movie Theaters	Wine Cellars
Egg Processing Plants	Museums	Wineries and Zoos
Factories	Nursing Homes	
False Ceilings		
Freight Containers		

FOR THE CONTROL OF INSECTS including, but not limited to [such as]:

Almond-Moths	Drugstore Beetles	Mosquitoes
Angoumois Grain Moths	Earwigs	Mosquitoes that may carry and transmit West Nile Virus
Ants	Face Fly	Palmetto Bugs
Black Fly	Firebrat	Pillbugs
Boxelder Bugs	Flat Grain Beetles	Red Flour Beetles
Brown Dog Ticks	Fleas	Rice Flour Beetles
Cadellles	Flies	Rusty Grain Beetles
Carpet Beetles	Flying Moths	Sawtoothed Grain Beetle
Carrion Beetles	Fruit Flies	Silverfish
Cereal Beetles	Gnats	Skipper Fly
Cheese Mites	Grain Mites	Sowbugs
Cheese Skippers	Granary Weevils	Spider Beetles
Chocolate Moths	Hide Beetles	Spiders
Cigarette Beetles	Horn Flies	Stable Flies
Clothes Moths	Hornets	Ticks
Clover Mites	Horseflies	Ticks that may carry and transmit Lyme Disease
Cockroaches	Indian Meal Moths	Tobacco Moths
Coffee Bean Weevils	Khapra Beetles	Warehouse Beetles
Confused Flour Beetles	Lesser Grain Borers	Wasps
Crickets	Lesser House Fly	Waterbugs
Dark Mealworms	Litter Beetles	Yellow Jackets
Darkling Beetles	Mediterranean Flour Moths	Yellow Mealworms
Deer Flies	Merchant Grain Beetle	
Dermestid Beetles	Midges	
Drain Flies	Miller Moths	
Dried Fruit Beetle	Millipedes	

FOR INDOOR USES FOR APPLICATIONS ONLY IN FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS

A food handling establishment is an area or place other than a private residence in which food is held, processed, prepared and/or served.

Do not apply while the food area is in operation.
Remove or cover exposed food and food handling surfaces.
Do not allow spray to contact stored food.
Close room and shut off all air conditioning or ventilating equipment.

Do not allow adults, children, or pets to enter the treated area at least 15 minutes, until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
Only protected handlers may be in the area during application.
Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed.

Remove or cover exposed food and drinking water before application.
Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, or wash them before use.
Do not apply more than 1 time per day.

AS UNDILUTED SPACE SPRAY APPLICATION:

For application in food areas of food handling establishments:

Pest	Application Rates	Remarks
To kill exposed accessible stages of: Flies (including Fruit Flies), Mosquitoes, Small Flying Moths, Fleas, Gnats, Wasps, Hornets, Clover Mites, Cheese Mites, Cheese Skippers, Boxelder Bugs, Earwigs, Ants and the following common Stored Product Pests: Granary Weevils, Rice Weevils, Confused Flour Beetles, Sawtoothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Angoumois Grain Moths, Mediterranean Flour Moths, Indian Meal Moths, Tobacco Moths, Yellow Meal Worms, Dark Meal Worms, Grain Mites, Cadelles and Red Flour Beetles.	Apply at the rate of 0.5 fluid ounces undiluted SHOCKWAVE per 1,000 cubic feet of space (0.52 ml /m ³).	Direct spray toward upper corners of room and ceiling. Leave room closed for 1/2 hour and ventilate thoroughly before re-entry. Do not apply this undiluted spray in facilities operating under Federally Inspected Facilities.
To kill: Cockroaches, Silverfish, Earwigs, Ants, Spiders	Apply at the rate of 0.5 fluid ounces undiluted SHOCKWAVE per 1,000 cubic feet (0.52 ml /m ³) of space.	Direct the spray first into all cracks and crevices, behind all equipment, cupboards, obstructions or dark harborage areas, walls, floors, underneath sinks, behind pipes and in all places that harbor insects to provide maximum penetration and impingement on the insects. Contact as many insects as possible. Then treat as a space spray. Vacate treated area and leave the room closed for 1/2 hour. Ventilating thoroughly before re-entry.

NOTE: If there is a need to treat such areas as conduits, motor housings, junction and switch boxes or other electrical equipment, turn off electrical equipment prior to application. After application, allow time for oil to dissipate before starting motors or placing switches in the "ON" position.

For application in treatment of stored food areas: For areas with foods stored in multi-walled bags, cloth bags or other packaging stored in such areas as listed for the control of accessible adult stages:

Pest	Application Rates	Remarks
Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils, Khapra Beetle and other listed pests.	Disperse first by directing spray into cracks and crevices, corners, pallets and around stacks of packaged goods hitting as many insects as possible and then apply as a space spray at a dosage of 1.5 fluid ounces per 1,000 cubic feet (1.6 ml/m ³) of room space.	Repeat application as necessary for insect control. Do not remain in treated area and ventilate before re-entry. Infested stored products should be destroyed, fumigated or treated by other effective methods using an approved product intended for this purpose.

For application in other stored food and tobacco facilities: As a space treatment around bags or other packaging and pallets containing stored peanuts, nuts, beans (including cocoa), seeds, copra, and tobacco. Do not apply directly to any exposed foodstuff or exposed tobacco.

Pest	Application Rates	Remarks
For the control of accessible stages of Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils, Khapra Beetles and other listed insects.	Apply as a space spray at the rate of 1.5 fluid ounces per 1,000 cubic feet (1.5 g/m ³) of space by directing the spray toward the ceiling and upper corners of the area and behind any obstructions.	Apply to the surface of stored or bagged products. Also spray walls, floors and other surfaces, storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar hiding places.
To kill Cockroaches.	Using an appropriate ULV spraying device, inject the aerosol spray directly into cracks and crevices.	Spray directly into cracks and crevices to completely fill wall, equipment, and other small structural void areas. Leave room ventilation or air conditioning equipment on during application. Except in hospitals, as noted above, the room can be reentered immediately after applications are complete.

AS DILUTED SPACE SPRAY APPLICATION:

For application in food areas of food handling establishments:

Pest	Application Rates	Remarks
To control accessible stages of Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils and Khapra Beetles.	Dilute SHOCKWAVE with a white mineral oil conforming to Regulation 21 CFR 121.2589(b) or an odorless light petroleum hydrocarbon conforming to 121.1182 at the rate of 1(one) part concentrate to 9(nine) parts oil and mix well. Apply at the rate of 5.0 fluid ounces per 1,000 cubic feet (5.2 ml/m ³) of space, filling the room with mist. Use in mechanical fogging, thermal fogging or spraying equipment. Close room and shut off all air conditioning or ventilating equipment.	Remove or cover exposed food and cover food handling surfaces in edible product areas of food handling establishments. Food contact surfaces should be thoroughly washed with an effective cleaning compound and rinsed with potable water after use of the product. [Do not apply directly to food. Do not allow spray to contact stored food or food contact surfaces. Do not apply as a space spray while food processing is underway. Cover or wash all food processing surfaces and equipment with an effective cleaning compound followed by a potable water rinse. In the home, cover all food processing surfaces, dishes and utensils before treatments or thoroughly wash before use following treatment.] Vacate treated area and ventilate before re-entry.

Treatment of Areas Containing Stored Dried Fruit Products: For areas with foods stored in multi-walled bags, cloth bags or other packaging stored in such areas as listed for the control of accessible adult stages:

Pest	Application Rates	Remarks
For control of Confused Flour Beetles, Dried Fruit Beetles, Indian Meal Moths, And Sawtoothed Grain Beetles.	Dilute concentrate with oil at the rate of 1 part SHOCKWAVE plus 29 parts oil or 4.5 fluid ounces per gallon (36 ml/L) and mix well. Disperse this product as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Use 0.5 fluid ounces per 1,000 cubic feet (0.52 ml/m ³) of space.	Remove and destroy infested products. Repeat application at this dosage in any given month. Leave the room closed for one hour. Do not remain in treated areas and ventilate the area before re-entry. Sweep up and destroy fallen insects.

Other stored food and tobacco facilities: For areas with foods or tobacco stored in multi-wall bags or cloth bags in flour mills, grain elevators, granaries, storage rooms, warehouses:

Pest	Application Rates	Remarks
For control of Angoumois Grain Moths, Cadelles, Cheese Mites, Cheese Skippers, Cigarette Beetles, Confused Flour Beetles, Dark Meal Worms, Grain Mites, Granary Weevils, Indian Meal Moths, Mediterranean Flour Moths, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Yellow Meal Worms.	Dilute concentrate with oil at the rate of 1 part SHOCKWAVE plus 29 parts oil or 4.5 fluid ounces per gallon (36 ml/L) and mix well. Disperse this product first by directing spray into corners, under pallets, and around stacks of packaged foods hitting as many insects as possible and then treat as a space spray. Infested stored products should be fumigated or treated by other effective methods using an approved product intended for this purpose. Use a dosage of 0.5 fluid ounces per 1,000 cubic feet (0.52 ml/m ³) of space.	Remove and destroy infested products. Do not remain in treated areas and ventilate area before re-entry. This application will kill accessible, exposed stages of those stored product pests listed above. Sweep up and destroy fallen insects.

For federally inspected meat and poultry plants:

Pest	Application Rates	Remarks
For control of exposed or accessible stages of ants, earwigs, flies, fruit flies, gnats, mosquitoes, silverfish, small flying moths, spiders and waterbugs.	Dilute one part SHOCKWAVE with 3 parts base oil (refined kerosene) and use with a ULV spraying device at the rate of one fluid ounce per 1,000 cubic feet (1.0 ml/m ³) of room space.	Apply the spray into all cracks and crevices in woodwork, walls, floors, underneath sinks, behind pipes and in all places where these insects shelter. Contact as many insects as possible. Before spraying, exposed food products and packaging materials must be covered or removed. After spraying, equipment and utensils must be washed with an effective cleaning compound and rinsed with potable water prior to use. Use as a space or general surface spray only when plant is not in operation. [Do not apply directly to food. Do not allow spray to contact stored food or food contact surfaces. Do not apply as a space spray while food processing is underway. Cover or wash all food processing surfaces and equipment with an effective cleaning compound followed by a potable water rinse. In the home, cover all food processing surfaces, dishes and utensils before treatments or thoroughly wash before use following treatment.]
To kill litter beetles (Such as Darkling, Hide, and Carrion Beetles).	Dilute 1 part SHOCKWAVE with 5 parts of a suitable oil. Using a power or proportioner-type sprayer, apply a uniform spray at pressures of 80-100 pounds per square inch to walls, posts, cage framing (birds grown in cages only). Application should also be made into cracks and crevices in and around insulation. One gallon of diluted spray covers 1,000 sq. ft (40 ml/m ³).	SHOCKWAVE can be applied to litter, such as poultry houses infested with litter beetles. Remove animals prior to treatment. Treat surfaces after animals are removed. Treat walls and floors and all areas where beetles frequently occur. Do not contaminate food/feed or water. Reapply after each growout or sanitation procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply SHOCKWAVE in a uniform band at least 1 foot up (0.3 m) and 1-4 feet (0.3 – 1.2 m) out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

For applications in zoos:

Pest	Application Rates	Remarks
To kill flies, gnats, mosquitoes, small flying moths.	As a space spray diluted for use in conventional mechanical fogging equipment, dilute 1 part SHOCKWAVE plus 29 parts oil (refined kerosene) and mix well. Apply at a rate of 2 fluid ounces per 1,000 cubic feet (2.08 ml/m ³) of space above the animals.	Direct spray towards the upper portions of the enclosure filling the room with mist. Keep area closed for at least 15 minutes. Vacate treated area and ventilate before reoccupying. Repeat treatment when reinfestation occurs. Do not contaminate animal foods, feeds or water by application or drift.

FOR APPLICATIONS IN RESIDENTIAL / COMMERCIAL SETTINGS, INCLUDING NON-FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS

A food handling establishment is an area or place other than a private residence in which food is held, processed, prepared, and/or served. Non-food areas of food handling establishments include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

Applications within residential and non-residential buildings include homes, apartment buildings, kennels, and non-food areas of industrial and commercial buildings such as hospitals, hotels, warehouses, truck trailers, railroad cars, theatres, office buildings, schools, and other sites as listed.

Do not apply this product as a space spray in any residential or commercial settings, as listed at left. Space sprays are ONLY allowed in food areas of food handling establishments.

Do not allow adults, children, or pets to enter the treated area at least 15 minutes, until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

Only protected handlers may be in the area during application.

Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed.

As Diluted Surface Spray Application:

Pest	Application Rates	Remarks
To control accessible stages of: Ants, Drugstore Beetles, Earwigs, Cockroaches, Silverfish, Beetles, Boxelder Bugs, Clover Mites, Crickets and other listed insects.	Dilute in a range of 1 part SHOCKWAVE plus 2.25 parts suitable diluent to 1 part concentrate plus 29 parts suitable diluent, mix well and apply as a coarse wetting spray using approximately 1 gallon of spray mixture per 750 square feet (54 ml/m ²) of surface.	May be used only when the facility is not in operation provided exposed food is covered or removed from the area being treated prior to application. To ensure maximum control of listed crawling insects, spray thoroughly into all cracks, molding, crevices, walls, floors and other surfaces, storage and handling areas. Particular attention should be paid to areas where moisture collects such as drains, sinks and water pipes, around the base of heavy machinery and equipment contacting as many insects as possible. For ants: spray directly into nests, along trails, and directly on all ants observed.

For applications in transit protection: truck beds, boxcars, ships holds, and other listed transit equipment before loading.

Pest	Application Rates	Remarks
To control accessible stages of listed insects.	Dilute concentrate with oil in a range of 1 part SHOCKWAVE plus 2.25 parts oil to 1 part concentrate plus 29 parts oil and mix well. Apply diluted spray at the rate of 1 gallon per 1,000 square feet (40 ml/m ²).	Spray thoroughly treat walls and floors. Spray each layer of cartons or containers lightly as stacked.

FOR OUTDOOR USES:

Do not water the treated area to the point of run-off.
 Do not make applications during the rain.
 Do not allow adults, children, or pets to enter the treated area for at least 15 minutes, until sprays have dried.
 Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
 Only protected handlers may be in the area during application.
 Do not apply to any fruit or nut bearing trees, shrubs, vines, or plants.
 Do not apply this as a spray or broadcast application to turf other than small spot treatments around structures.
 Do not use this product for area-wide mosquito adulticiding applications.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- (1) Treatment to soil or non-food bearing vegetation around structures;
- (2) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only.

As Diluted Surface Spray Application:

Pest	Application Rates	Remarks
To control ants, cockroaches, crickets, flies and other flying insects, mosquitoes, sowbugs, spiders, and ticks.	Dilute concentrate in a range of 1 part SHOCKWAVE plus 2.25 parts oil to 1 part concentrate plus 29 parts oil and mix well. Use at the rate of 1 gallon diluted spray per 1000 square feet (40 ml/m ²).	To treat trash containers, dumpsters, and outside surfaces of buildings and other surfaces where these pests have been seen or found. Do not treat surfaces that may be stained.

NOTE: When using oil as the diluent, an odorless light petroleum hydrocarbon as defined by CFR Title 21, 172.884 should be used for all food area and food related applications. Additionally, when diluted and used according to label directions, this spray will meet specifications for use under USDA meat, poultry, shell egg grading, and egg products inspection programs.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry area. Always store pesticides in the original container. Store away from food and pet food.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill.

Triple Rinse as follows [for containers of 5 Gallons (18.9 L) or less]: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part II. Avoid contamination of food or feedstuffs.

Remove pets, birds, and cover fish aquariums before spraying.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and other wildlife. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Do not store near heat or open flame.

FIRST AID

IF SWALLOWED:

- Immediately call a poison control center or doctor.
- Do not give any liquid to the person.
- Do not induce vomiting unless told to do so by a poison control center or a doctor.
- Do not give anything by mouth to an unconscious person.

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 eyes.
- Call a poison control center for 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.

NOTE TO PHYSICIAN: This product contains petroleum distillate and may pose an aspiration pneumonia hazard.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.



SHOCKWAVE
FOGGING CONCENTRATE

EPA Reg. No. 1021-1810
EPA Est. No. 1021-MN-2
1110-1011

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8810 Tenth Avenue North, Minneapolis, MN 55427

2.5M-1111



SAFETY DATA SHEET

Issue Date: 18-May-2016

Revision Date: 18-May-2016

Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name: SHOCKWAVE® Fogging Concentrate
EPA Registration Number: 1021-1810

Other means of identification

Part Code: 7452

Recommended use of the chemical and restrictions on use:

Recommended Use: Insecticide.

Details of the supplier of the safety data sheet

Manufacturer Address: McLaughlin Gormley King Company
8810 10th Avenue North
Minneapolis, MN 55427
Telephone Number: (800) 645-6466, or (763) 544-0341
e-Mail Address: mgk-sds@mgk.com
FAX #: (763) 544-6437

Emergency telephone numbers:

24 Hour TRANSPORTATION Emergency: CHEMTREC®: (800) 424-9300
International: (703) 527-3887

24 Hour MEDICAL Emergency: SafetyCall®: (888) 740-8712, or (952) 852-9509

Comments: MGK® Hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to
(888) 740-8712, or (952) 852-9509.

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status:

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

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Label elements

Emergency Overview

DANGER

Hazard statements

- H304 - May be fatal if swallowed and enters airways
- H332 - Harmful if inhaled
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H227 - Combustible liquid

**Appearance:** Clear , light yellow**Physical state:** Liquid**Odor** Sweet Vegetable-oil Odor , Slight
- Solvent**Precautionary Statements - Prevention:**

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P271 - Use only outdoors or in a well-ventilated area
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response:

- P321 - Specific treatment (see Section 4/ First Aid).
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P362 - Take off contaminated clothing and wash before reuse
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 P331 - Do NOT induce vomiting
 P370 + P378 - In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage:

- P405 - Store locked up
 P403 + P235 - Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal:

- P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Pyrethrins	8003-34-7	1.00
Piperonyl Butoxide (PBO)	51-03-6	2.00

MGK®-264 Insecticide Synergist (n-Octyl bicycloheptene dicarboximide)	113-48-4	2.87
Esfenvalerate	66230-04-4	0.200
NYLAR® (Pyriproxyfen)	95737-68-1	0.100
Petroleum distillates, hydrotreated light	64742-47-8	90<---->99 *

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

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Aspiration pneumonia hazard: • May be fatal if swallowed and enters airways.

Description of first aid measures:

Eye contact:	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.
Skin Contact:	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.
Ingestion:	If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
Inhalation:	Remove affected person 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.
Self-protection of the First Responder:	Use personal protective equipment as required.
Note to physicians:	This product contains Pyrethrins and Petroleum Distillates; Vomiting may pose an aspiration pneumonia hazard. For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use. Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam.

Unsuitable extinguishing media:

Caution: Use of water spray when fighting fire may be inefficient.

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO₂), Hydrogen cyanide.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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

Chronic Hazard Star Legend * = Chronic Health Hazard

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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. Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). For more information, see product label.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers. For more information, see product label.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Pyrethrins 8003-34-7	TWA: 5 mg/m ³	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 5000 mg/m ³ TWA: 5 mg/m ³	-
Petroleum distillates, hydrotreated light 64742-47-8	-	-	-	TWA: 100 ppm TWA: 525 mg/m ³

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: Safety showers
Eyewash stations
Ventilation systems

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.

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. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid
Appearance: Clear, light yellow
Odor: Sweet Vegetable-oil Odor, Slight - Solvent
Odor threshold: No information available
Color (Gardner Scale): 2

<u>Property:</u>	<u>Values:</u>	<u>Comment: • Method</u>
pH:	No information available	Not applicable; immiscible in water.
Melting point / freezing point:	No information available	
Boiling point / boiling range:	No information available	
Flash point:	84.4 °C / 184.0 °F	Tag Closed Cup;
Evaporation rate:	No information available	

Flammability (solid, gas):	No information available	
Upper flammability limit (UEL):	No information available	
Lower flammability limit (LEL):	No information available	
Vapor pressure:	No information available	
Vapor density:	No information available	
Specific Gravity:	No information available	
Water solubility:	No information available	
Partition coefficient; n-Octanol/ Water:	No information available	
Autoignition temperature:	No information available	
Decomposition temperature:	No information available	
Kinematic viscosity:	No information available	
Dynamic viscosity:	9 cPs.	@ 23.0 °C. .
Refractive Index:	1.4408	@ 25°C (77°F)

Other Information:

Density:	0.799 g/cm ³ @ 20.0 °C
VOC Content (%):	0.043

Miscibility/ Solubility:

Water:	Immiscible
Alcohol	Miscible
Aromatic solvents:	Miscible
Petroleum distillates:	Miscible

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition ProductsCarbon monoxide, Carbon dioxide (CO₂), Hydrogen cyanide.**11. TOXICOLOGICAL INFORMATION****Numerical measures of toxicity - Product Information**

Oral LD₅₀	>2,000 mg/kg (rat)
Dermal LD₅₀	>2,000 mg/kg (rabbit)
Inhalation LC₅₀	>2.21 mg/L (rat; 4 hours)
Eye contact:	Irritation clearing in 72 hours. (rabbit).
Skin Contact:	Moderate irritation at 72 hours. (rabbit).

Skin Irritation Index:	2.25
Sensitization:	Positive. (guinea pig).
Piperonyl Butoxide: Carcinogenicity/ Oncogenicity:	Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity:	No information available.
Developmental Toxicity	No information available.
Teratogenicity:	No information available.
STOT - single exposure:	No information available.
STOT - repeated exposure:	No information available.
Chronic toxicity:	Avoid repeated exposure.
Target Organ Effects:	Central nervous system, Respiratory system, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects: No information available

Environmental hazards (EPA):

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

Contaminated packaging: For more information, see product label.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

UN/ID Number: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)
Hazard Class: 9
Packing Group: III

Other Shipping Information: This material is **not** regulated as a hazardous material by the DOT in quantities less than 1,000 Lbs.

Shipping name for quantities less than 1,000 Lbs.:
Insecticides, Insect or Animal Repellent, Liquid

Air (IATA/ ICAO)

UN/ID Number: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)
Hazard Class: 9
Packing Group: III

Vessel (IMO/ IMDG) Not available

15. REGULATORY INFORMATION

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 %
Piperonyl Butoxide (PBO) - 51-03-6	1.0

SARA 311/312 Hazard

Categories

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

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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Pyrethrins 8003-34-7	1 lb	-	-	-

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

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ):
Pyrethrins 8003-34-7	1 lb	-	RQ 1 lb final RQ RQ 0.454 kg final RQ

US State Regulations:**California Proposition 65:**

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information:

EPA Registration Number: 1021-1810

Difference between SDS and EPA (FIFRA) Pesticide label:

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: **CAUTION**

Precautionary Statements:

- Harmful if swallowed.
- Harmful if absorbed through the skin.
- Causes moderate eye irritation.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

International:

TSCA	Complies
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

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

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.

Issue Date:
18-May-2016

Revision Date:
18-May-2016

Revision Note:
- New SDS.
- GHS - Classification.

SDS Prepared By:
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Disclaimer:

The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

End of Safety Data Sheet.