

Tempo[®] ULTRA WP

INSECTICIDE

• Broad spectrum control of crawling, flying, and wood-boring insects on indoor and outdoor surfaces, as well as insect pests of trees, landscape ornamentals, and agricultural and commercial lawns.

INGREDIENTS: β -Dyhalotol, cyantraniliprol, 1-(3-phenoxyphenyl) methyl 3-(2,2-dimethyl-2-oxoethyl) carbamate 10%
INERTS: 90%

Reg. No. 432-1304

READ THE LABEL BEFORE USE TO AVOID REACH OF CHILDREN

CAUTION

See inside leaflet for complete First Aid Instructions, Precautionary Statements, Directions for Use and Storage, and Disposal Instructions.

CASE OF MEDICAL, ENVIRONMENTAL, OR TRANSPORTATION EMERGENCIES OR INJURIES, CALL 1-800-334-7577 (24 HOUR/DAY)
For Product Information, Call Toll Free: 1-800-331-2867

FIRST AID	
ON SKIN:	<ul style="list-style-type: none"> 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.
INHALED:	<ul style="list-style-type: none"> Move 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.
IN EYES:	<ul style="list-style-type: none"> 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.
NOT ALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

Use the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment.

NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

IRRITATION

Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and warm water after handling. Remove contaminated clothing and wash before reuse.

Wear safety glasses, goggles, or face shield when handling the undiluted material. Do not allow people or pets to enter treated areas until surfaces are dry.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Remove from premises or tightly cover fish tanks and aerators when applying indoors where such containers are present. Drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off run off to water bodies or drainage systems.

This pesticide is highly toxic to bees exposed to direct treatment or residues on crops and weeds. Do not apply Tempo Ultra WP insecticide or allow it to drift onto crops or weeds on which bees are actively foraging. Additional information may be obtained by consulting your Cooperative Extension Service.

PRODUCT FACTS	
Knockdown & Residual Control	• Low Odor
Non-staining	• No phytotoxicity on a wide range of ornamentals
ULTRA INSECTICIDE	• Wettable powder containing 10% beta-cyfluthrin
CONTROLS	<ul style="list-style-type: none"> Indoor Pests <ul style="list-style-type: none"> General Household Pests Pantry and Stored Product Pests Food Processing Pests Outdoor/Perimeter Pests Wood-infesting Pests Turf and Ornamental Pests For list of specific insects, see inside.
WHERE TO APPLY	<ul style="list-style-type: none"> Apply where pests have been seen or found, or can find shelter. In and around buildings and structures On residential, commercial and recreational areas of turf On ornamentals in landscapes and interior plantscapes
VELOCITY	<ul style="list-style-type: none"> Makes up to 42 gallons of finished spray solution for indoors. (420 g size) Treats up to 84,000 square feet outdoors. (420 g size)
MIXING INFORMATION	<ul style="list-style-type: none"> Mix the appropriate amount of Tempo Ultra WP Insecticide with water. May tank mix with other pesticides currently registered for similar uses, unless specifically prohibited.
HOW TO APPLY	<ul style="list-style-type: none"> General surface, spot, mist, or crack & crevice application. Broadcast application to turf and foliar application to ornamentals.

PRODUCT FACTS (Continued)	
RE-APPLY	<ul style="list-style-type: none"> Every 7 to 10 days, if needed. For turf, reapply if needed, but not more than 6 times per year.
APPLICATION RESTRICTIONS	<ul style="list-style-type: none"> Do not water the treated area to the point of run-off. Do not make applications during rain. Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack & crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack & crevice treatments only, except for the following permitted uses: <ol style="list-style-type: none"> Applications to soil or vegetation, as listed on this label, around structures; Applications to lawns, turf, and other vegetation, as listed on this label; Applications to the side of a building, up to a maximum height of 3 feet above grade; Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure; Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width; Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

APPLICATION RESTRICTIONS	<ul style="list-style-type: none"> Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
RE-ENTRY	<ul style="list-style-type: none"> Avoid contact with treated surfaces until dry. People and pets may re-enter after the treated area is dry.
QUESTIONS	For questions or comments, call toll-free 1-800-331-2867

DIRECTIONS FOR USE

Read entire label and Conditions of Sale before using this product.

INDOOR PESTS			
Crawling Pests (except Pharaohs)	Centipedes	Elm leaf beetles	Seed bugs
Spider bugs	Firebrats	Kudzu bugs	Silverfish
Spider mites	Cluster flies	Millipedes	Sowbugs
Earwig	Cockroaches	Millipedes	Spiders
Wasp	Crickets	Multicolored Asian lady beetles	
Wasp	Darkling beetles	Pillbugs	
Wasp	Earwigs		

INDOOR PESTS (Continued)			
Wasp	Gnats	Moths	Wasps
Wasp	Hornets	Phorid flies	Yellowjackets
Wasp	Midges	Sciarid flies	
FOOD & STORED PRODUCT PESTS			
Wasp	Drugstore	Merchant grain	Moths
Wasp	Granary weevil	Mealworm	Indian meal
Wasp	Hide	Red flour	Mediterranean flour
Wasp	Larder	Rice weevil	
Wasp	Leather	Sawtoothed grain	
Wasp	Lesser grain borer	Warehouse	
Wasp	Lesser mealworm		
WHERE TO APPLY	Apply where pests have been seen or found, or can find shelter. Use a general surface, spot, mist, or crack and crevice application.		
MIXING RATE	0.025% -- 10 g (2 scoops) /gallon water 0.05% -- 20 g (4 scoops) /gallon water		
HOW TO APPLY	<ul style="list-style-type: none"> Use high rate for severe infestations, faster knockdown, and longer residual. Always use the high rate for bees, wasps, yellow jackets, and hornets. 		
ADDITIONAL DIRECTIONS	<ul style="list-style-type: none"> Remove or tightly cover fish tanks and disconnect aerators during application. Remove pets during application and until treated surfaces are completely dry. Avoid contact with treated surfaces until dry. Wear safety glasses, goggles, or face shield, and a dust/mist mask or respirator when treating overhead areas. 		
GENERAL SURFACE APPLICATIONS	<ul style="list-style-type: none"> Use a low-pressure system (do not exceed 50 psi at nozzle tip). 		

INDOOR PESTS (Continued)	
HOW TO APPLY (Also see APPLICATION FOR INDOOR PESTS)	<ul style="list-style-type: none"> with a fan-type nozzle to apply the dilution uniformly. In the home, all food processing surfaces and utensils should be covered, or thoroughly washed following treatment. Cover exposed food or remove from area being treated. Spot, Mist, or Crack & Crevice Applications Apply directly into voids, cracks & crevices using spray or foam equipment. Spray: Use a low-pressure system (do not exceed 50 psi at nozzle tip), with a pinpoint or variable pattern nozzle or applicator equipment that delivers low volume treatments. Foam: Use appropriate foam generating equipment to supply sufficient volume of foam. Mix the dilution with manufacturer recommended volume of foaming agent.
WHEN TO APPLY	<ul style="list-style-type: none"> When pests are seen or found Re-apply every 7 to 10 days if needed.
MIXING INFORMATION	<ul style="list-style-type: none"> Add product when filling spray tank with water; shake or agitate mixture. Diluted spray mixture can be stored overnight. Agitate before using. Can be tank mixed with other pesticides currently registered for similar uses. To be sure of physical compatibility, first prepare a sample in a small jar using the proper proportions water and products. Follow the most restrictive of labeling directions and precautions. Do not exceed label rates.
RESTRICTIONS	<ul style="list-style-type: none"> Do not treat entire area of floor or floor coverings. Do not apply where electrical short circuits can occur. Use a dust or dry bait in these areas. Do not apply in occupied hospital and/or nursing home room

INDOOR PESTS (Continued)	
RESTRICTIONS	<ul style="list-style-type: none"> Occupants may return when surfaces have dried. Do not apply in occupied classrooms. Do not apply to furniture or upholstery where prolonged contact by humans will occur. Do not apply as a space spray.

ADDITIONAL DIRECTIONS FOR FOOD AND FEED HANDLING ESTABLISHMENTS	
WHERE TO APPLY	<ul style="list-style-type: none"> Applications may be made to both food/feed and non-food areas of food and feed handling establishments. Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared, or served. Includes areas for: <ul style="list-style-type: none"> receiving, storing, and packing (canning, bottling, wrapping, boxing) food preparing food edible waste storage enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.
MIXING RATE	<ul style="list-style-type: none"> Apply as a general surface, spot, mist, or crack & crevice application. 0.025% -- 10 g (2 scoops) /gallon water 0.05% -- 20 g (4 scoops) /gallon water Use high rate for severe infestations, faster knockdown, and longer residual.

PERIMETER PESTS (Continued)	
Y	<ul style="list-style-type: none"> Perimeter Treatment: To help prevent infestation of structures, treat area adjacent to buildings in a band up to 10 feet wide. Also treat the building foundation to a height of 2 to 3 feet in areas where pests are active or can find entrance. Apply just enough dilution to adequately cover the area without excessive dripping or runoff. Volume can vary depending on the surface type treated. For example, mulch requires spray than bare soil. If mulch is heavy, rake it use soil before treating. Avoid contact with treated surfaces until dry.
S	<ul style="list-style-type: none"> When pests are seen or found. Re-apply every 7 to 10 days if needed.
I	<ul style="list-style-type: none"> Add product when filling spray tank with water; shake or agitate mixture. Diluted spray mixture can be stored overnight. Agitate before using. Can be tank mixed with other pesticides currently registered for similar uses. To be sure of physical compatibility, first prepare a sample in a small jar using the proper proportions of water and products. Follow the most restrictive of labeling directions and precautions. Do not exceed label rates.

UTDOOR/PERIMETER PESTS			
ts	Crickets	Kudzu bugs	Scorpions
es	Elm leaf beetles	Midges	Seed bugs
valder bugs	Fire ants	Millipedes	Silverfish
awn marmorated	Firebrats	Multicolored	Sowbugs
ink bugs	Fleas	Asian lady	Spiders
panter ants	Flies	beetles	Ticks
ntipedes	Gnats	Moths	Wasps
ckroaches	Ground beetles	Pillbugs	Yellow jackets
ster flies	-Hornets		
W:	<ul style="list-style-type: none"> Apply where pests have been seen or found, or can find shelter. Apply to buildings, porches, patios, garages, fences, and other areas where pests are found. To prevent infestation, treat the building foundation, walls, and around doors, windows, and soffits where pests are active or may enter or hide; also treat the soil, turf, or other substrates adjacent to buildings. 		
A			
USE RATE	<ul style="list-style-type: none"> 10 to 20 g (2 to 4 scoops) /1000 square feet. See Table 1 for mixing directions. For fire ants and flying pests 0.025% -- 20 g (4 scoops) /gallon water Always use the high rate for fire ants, bees, wasps, yellow jackets, and hornets. Use high rate for severe infestations, faster knockdown, and longer residual. 		

(Continued)

GENERAL DIRECTIONS FOR FOOD AND FEED HANDLING SHEDS (Continued)	
General Surface Applications	<ul style="list-style-type: none"> Cover or remove all food processing and handling equipment before treatment. After applying where food is commercially prepared or processed, wash all handling and processing equipment, benches, shelving, and other surfaces which food will contact. Rinse thoroughly with clean, fresh water. Do not apply to surfaces in food handling areas when facility is in use or when foods are exposed. Do not apply directly to food.
Spot or Crack & Crevice Applications	<ul style="list-style-type: none"> Spot or crack & crevice application is permitted while facility is in use. Cover or remove food from area being treated. Do not apply directly to food or food handling surfaces.

APPLICATION FOR INDOOR PESTS	
GENERAL SURFACE PESTS	<ul style="list-style-type: none"> Use a coarse, low-pressure spray. Treat entry points such as around water pipes, doors, windows, and eaves. Treat areas where pests normally feed or hide such as baseboards, corners, around water pipes, under refrigerators, cabinets, sinks, and stoves, being sure to spray cracks & crevices. Spot treat floor or rugs beneath furniture, in closets, and storage areas, but do not apply to entire floor area. Do not use as a space spray. IGR Note: This product can be tank mixed with an insect growth regulator (IGR) for extended cockroach control.

(Continued)

APPLICATION FOR INDOOR PESTS (Continued)	
ANTS	<ul style="list-style-type: none"> Apply to ant trails on walls, tile, baseboards, around pipes, under cabinets, and other places where ants are active. Treat entry points such as windows and doors and the outdoor perimeter. For best results, treat nests when possible.
DRY AND DRIED PRODUCT PESTS	<ul style="list-style-type: none"> For best results, clean area before treating. Remove and destroy infested food. Discard food accidentally contaminated with spray. For cupboards, shelving, or food storage areas: Remove utensils, exposed food, shelf paper, and other items before spraying. When dried, cover shelves with clean paper before replacing items.
COMMERCIAL STORED PRODUCT PESTS	<ul style="list-style-type: none"> Commercial storage or transportation: Clean and treat warehouses, production facilities, storage areas, grain storage bins, rail cars, truck beds, and other areas where products are stored before filling with the product.
PESTS IN AIRCRAFT	<ul style="list-style-type: none"> For use only in aircraft cargo holds.
PESTS IN LIVESTOCK HOUSING STRUCTURES (including poultry houses & pet kennels)	<ul style="list-style-type: none"> Apply as a general surface and/or a crack & crevice spray. For best results, clean facilities before applying and treat outdoor perimeter areas. Do not apply indoors where animals other than cattle or horses are present. Do not apply to animal feedstuffs or watering equipment.
FLYING INSECTS	<ul style="list-style-type: none"> Apply to surfaces where pests collect or rest.

OR INJURIES, CALL 1-800-334-7577 (24 HOUR/DAY)
For Product Information, Call Toll Free: 1-800-331-2867

FIRST AID	
IF ON SKIN:	<ul style="list-style-type: none"> 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 INHALED:	<ul style="list-style-type: none"> Move 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.
IF IN EYES:	<ul style="list-style-type: none"> 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.
IF SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment.</p>	
<p>NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.</p>	

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION
Causes moderate eye irritation. May be swallowed, inhaled or absorbed through the skin. Do not get in eyes, on skin, or on cloth. Avoid breathing dust or spray mist. Wash thoroughly with soap and warm water after handling. Remove contaminated clothing and wash before reuse. Wear safety glasses, goggles, or face shield when handling the undiluted material. Do not allow people or pets to enter treated areas until surfaces are dry.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Remove from premises or tightly cover fish tanks and disconnect aerators when applying indoors where such organisms are present. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Missing application equipment over the treated area will help avoid run off to water bodies or drainage systems. This pesticide is highly toxic to bees. Do not apply Tempop® Ultra XP Pesticide when bees are active foraging. Additional information may be obtained by consulting your Cooperative Extension Service.

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Produced for:
Bayer Environmental Science
A Division of Bayer CropScience LP
2 T. W. Alexander Drive
Research Triangle Park, NC 27709
Product of India

Backed by
BAYER



Do not contaminate water, food, or feed by storage or disposal.	<ul style="list-style-type: none"> Store in a cool, dry place and in such a manner as to prevent cross contamination with pesticides, fertilizers, food, or feed. Store in original containers and out of the reach of children, preferably in a locked store. Handle and open container in a manner as to prevent spillage.
STORAGE	
PESTICIDE DISPOSAL	<ul style="list-style-type: none"> Pesticide wastes are hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL	<ul style="list-style-type: none"> Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Other for recleaning, if appropriate. If the rinses container, or equivalent, may be emptied by rinsing with water, use 1/4 full with water and recap. Shake for 10 seconds. Pour or milk the residue into a mix tank, or store rinsate for later use or disposal. Drain for 30 seconds after the flow begins to drip. Repeat this procedure two more times. Do not use container in connection with food, feed, or drinking water. Dispose of container by offering for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or by incineration, or if allowed by state and local authority burning. If burned, stay out of smoke.
SPILLS	<p>If the container is leaking or material is spilled for any reason or cause, carefully sweep in material. Refer to Precautionary Statements on label for hazards associated with the liquid material.</p> <ul style="list-style-type: none"> Do not walk through spilled material. Do not use equipment for cleanup. Keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or other assistance at 1-800-334-7577.





TEMPO® ULTRA WP INSECTICIDE

Version 4.0 / USA
102000016285

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Revision Date: 10/06/2015
Print Date: 01/05/2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name TEMPO® ULTRA WP INSECTICIDE

Product code (UVP) 03545575

SDS Number 102000016285

EPA Registration No. 432-1304

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577

Product Information Telephone Number 1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Eye irritation: Category 2B

Acute toxicity(Oral): Category 4



Signal word: Warning

Hazard statements

Causes eye irritation.
Harmful if swallowed.

Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.



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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Beta-Cyfluthrin	68359-37-5	10.0
Sodium lignosulphonate	8061-51-6	4.00
Crystalline quartz (respirable)	14808-60-7	3.95

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	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 physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
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 physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the



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patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Water, Dry chemical

Unsuitable None known.

Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point not applicable

Autoignition temperature no data available

Lower explosion limit not applicable

Upper explosion limit not applicable

Explosivity no data available

Dust explosion class no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Avoid dust formation. Do not breathe dust. Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.

Additional advice Do not allow to enter soil, waterways or waste water canal. Use personal protective equipment.

Reference to other sections Information regarding safe handling, see section 7.



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Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Hygiene measures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Protect from freezing.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Beta-Cyfluthrin	68359-37-5	5ug/m3 (AN ESL)	03 2014	TX ESL
Beta-Cyfluthrin	68359-37-5	50ug/m3 (ST ESL)	03 2014	TX ESL
Beta-Cyfluthrin	68359-37-5	0.01 mg/m3 (TWA)		OES BCS*
Crystalline quartz (respirable) (Respirable fraction.)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.05 mg/m3 (REL)	2010	NIOSH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	1989	OSHA Z1A



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Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Crystalline quartz (respirable)	14808-60-7	0.27ug/m3 (AN ESL)	03 2014	TX ESL
Crystalline quartz (respirable)	14808-60-7	14ug/m3 (ST ESL)	03 2014	TX ESL
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable.)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA)	2000	Z3
Crystalline quartz (respirable) (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
Sodium lignosulphonate	8061-51-6	50ug/m3 (ST ESL)	03 2014	TX ESL
Sodium lignosulphonate	8061-51-6	5ug/m3 (AN ESL)	03 2014	TX ESL

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection

Chemical resistant nitrile rubber gloves

Eye protection

Goggles

Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	tan
Physical State	powder
Odor	characteristic
Odour Threshold	no data available
pH	no data available
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Bulk density	19 - 26 lb/ft ³
Evaporation rate	not applicable
Boiling Point	not applicable
Melting / Freezing Point	not applicable
Water solubility	no data available
Minimum Ignition Energy	no data available
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	no data available
Viscosity	not applicable
Flash point	not applicable
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available
Dust explosion class	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition no data available

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

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Conditions to avoid	Exposure to moisture. Heat, flames and sparks.
Incompatible materials	Bases, Methanol
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION**Exposure routes** Eye contact, Skin Absorption, Skin contact, Inhalation, Ingestion**Immediate Effects****Eye** Moderate eye irritation.**Skin** Harmful if absorbed through skin.**Ingestion** Harmful if swallowed.**Inhalation** Harmful if inhaled.**Information on toxicological effects****Acute oral toxicity** LD50 (male rat) 3,084 mg/kg
LD50 (female rat) 1,733 mg/kg**Acute inhalation toxicity** LC50 (rat) > 1.18 mg/l
Exposure time: 4 h
Determined in the form of dust.

LC50 (rat) > 4.72 mg/l
Exposure time: 1 h
Determined in the form of dust.
Extrapolated from the 4 hr LC50.**Acute dermal toxicity** LD50 (rabbit) > 2,000 mg/kg**Skin irritation** Mild skin irritation. (rabbit)**Eye irritation** Mild eye irritation. (rabbit)**Sensitisation** Non-sensitizing. (guinea pig)**Assessment repeated dose toxicity**

The toxic effects of Beta-Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Assessment mutagenicity

Beta-Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Beta-Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH



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Crystalline quartz (respirable) 14808-60-7 Group A2

NTP

Crystalline quartz (respirable) 14808-60-7

IARC

Crystalline quartz (respirable) 14808-60-7 Overall evaluation: 1

OSHA

None.

Assessment toxicity to reproduction

Beta-Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Beta-Cyfluthrin is related to parental toxicity.

Assessment developmental toxicity

Beta-Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Beta-Cyfluthrin are related to maternal toxicity.

Further information

Acute toxicity studies have been bridged from a similar formulation(s).
The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.000068 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient beta-cyfluthrin.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 0.00029 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient beta-cyfluthrin.
Toxicity to aquatic plants	EC50 (Desmodesmus subspicatus (green algae)) > 0.01 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient beta-cyfluthrin. No acute toxicity was observed at its limit of water solubility.
Biodegradability	Beta-Cyfluthrin: not rapidly biodegradable
Koc	Beta-Cyfluthrin: Koc: 508 - 3179
Bioaccumulation	Beta-Cyfluthrin: Bioconcentration factor (BCF) 506 Does not bioaccumulate.
Mobility in soil	Beta-Cyfluthrin: Immobile in soil
Environmental precautions	Do not apply directly to water, to areas where surface water is present



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or to intertidal areas below the mean high water mark.
Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
Apply this product as specified on the label.
Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose in accordance with all local, state/provincial and federal regulations. Follow advice on product label and/or leaflet.
Contaminated packaging	Do not re-use empty containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke. Follow advice on product label and/or leaflet.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR	Not dangerous goods / not hazardous material
IMDG	
UN number	3077
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BETA-CYFLUTHRIN MIXTURE)
IATA	
UN number	3077
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.



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(BETA-CYFLUTHRIN MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-1304

US Federal Regulations

TSCA list

Sodium lignosulphonate 8061-51-6

Crystalline quartz (respirable) 14808-60-7

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Beta-Cyfluthrin 68359-37-5

US States Regulatory Reporting

CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Crystalline quartz (respirable) 14808-60-7

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Beta-Cyfluthrin 68359-37-5 NJ, RI

Crystalline quartz (respirable) 14808-60-7 MN

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

EPA/FIFRA Information:

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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 required on the pesticide label:

Signal word: Caution!

Hazard statements: Moderate eye irritation.
Harmful if swallowed, inhaled or absorbed through the skin.
Do not get in eyes, on skin, or on clothing.
Avoid breathing dust or spray mist.

SECTION 16: OTHER INFORMATION**Abbreviations and acronyms**

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 1 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 1 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: The following sections have been revised: Section 15: Regulatory information.**Revision Date:** 10/06/2015

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