

# Annual Integrated Pest Management Notice

## For School Year 2024 - 2025

Dear Parent, Guardian, or Staff Member:

This notice is being distributed to comply with the New Jersey School Integrated Pest Management Act. Upper Saddle River School District has adopted an Integrated Pest Management (IPM) Policy and has implemented an IPM Plan to comply with this law. IPM is a holistic, preventive approach to managing pests that is explained further in the schools IPM Policy included with this notice.

All schools in New Jersey are required to have an Integrated Pest Management Coordinator (IPM Coordinator) to oversee all activities related to IPM and pesticide use at the school.

The IPM Coordinator for Bogert School is:

Name of IPM Coordinator: Nijazi Leka

Business Phone number: 201-961-6505

Business Address: 395 W Saddle River Rd. Upper Saddle River NJ 07458

The IPM Coordinator maintains the pesticide product label, and the Material Safety Data Sheet (MSDS) (when one is available), of each pesticide product that may be used on school property. The label and the MSDS are available for review by a parent, guardian, staff member, or student attending the school. Also, the IPM Coordinator is available to parents, guardians, and staff members for information and to discuss comments about IPM activities and pesticide use at the school.

As part of a school pest management plan Upper Saddle River School District may use pesticides to control pests. The United States Environmental Protection Agency (EPA) and the New Jersey Department of Environmental Protection (DEP) register pesticides to determine that the use of a pesticide in accordance with instructions printed on the label does not pose an unreasonable risk to human health and the environment. Nevertheless, the EPA and the DEP cannot guarantee that registered pesticides do not pose any risk to human health, thus unnecessary exposure to pesticides should be avoided. The EPA has issued the statement that where possible, persons who are potentially sensitive, such as pregnant women, infants and children, should avoid unnecessary pesticide exposure.

The following pesticides have been used at this location in the past 12 months:

Trade Name	Common Name	EPA Registration #
Tempo Dust	Cyfluthrin	432-1373
Transport GHP	Bifenthrin	F18-56-0A
Transport Mikron	Bifenthrin	8033-109

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# POLICY

## Upper Saddle River Board of Education

Section: Property

7422. SCHOOL INTEGRATED PEST MANAGEMENT PLAN (M)

Date Created: June 2008

Date Edited: June 2008

### 7422- SCHOOL INTEGRATED PEST MANAGEMENT PLAN (M)

#### M

The New Jersey School Integrated Pest Management Act of 2002 requires school districts to implement a school integrated pest management policy that includes an Integrated Pest Management Plan. In accordance with the requirements of the Act, the Board shall ensure implementation of Integrated Pest Management (IPM) procedures to control pests and minimize exposure of children, faculty, and staff to pesticides. These procedures shall be applicable to all school property in the Upper Saddle River School District.

#### IPM Coordinator (IPMC)

The Supervisor of Buildings and Grounds shall be designated as the district's Integrated Pest Management Coordinator (IPMC) and is responsible for the implementation of the school integrated pest management policy.

#### Integrated Pest Management Procedures in Schools

Implementation of Integrated Pest Management (IPM) procedures will determine when to control pests and whether to use mechanical, physical, cultural, biological, or chemical methods. Applying IPM principles prevents unacceptable levels of pest damage by the most economical means and with the least possible hazard to people, property, and the environment.

The Integrated Pest Management Coordinator (IPMC) shall consider the full range of management options, including no action at all. Non-pesticide pest management methods are to be used whenever possible. The choice of using a pesticide shall be based on a review of all other available options and a determination that these options are not effective or not reasonable. When it is determined that a pesticide must be used, low impact pesticides and methods are preferred and shall be considered for use first.

#### Development of IPM plans

The Superintendent, in collaboration with the school Building Principal(s) and the IPMC, shall be responsible for the development of the IPM Plan for the school district. The school district's Integrated Pest Management (IPM) Plan is a blueprint of how the school district will manage pests through IPM methods. The school district's IPM Plan will state the school district's goals regarding the management of pests and the use of pesticides for all school district property. The Plan will reflect the school district's site-specific needs and a description of how each component of the school district's Integrated Pest Management Policy and Regulation will be implemented for all school property.

#### Education/Training

The school community will be educated about potential pest problems and IPM methods used to achieve the pest management objectives.

The IPMC, other school staff, and pesticide applicators involved with implementation of the district's IPM policy will be trained in appropriate components of IPM as it pertains to the school environment.

Pupils and parents/legal guardians will be provided information on this policy and instructed on how they can contribute to the success of the IPM program.

#### Recordkeeping

Records of pesticide use shall be maintained on site to meet the requirements of the State regulatory agency and the Board.

Records shall also include, but are not limited to, pest surveillance data sheets and other non-pesticide pest management methods and practices utilized.

#### Notification/Posting

The Building Principal of each school, working with the IPMC, is responsible for timely notification to pupils, parents or legal guardians and the school staff of pesticide treatments pursuant to the School Integrated Pest Management Act.

#### Re-entry

Re-entry to a pesticide treated area shall conform to the requirements of the School Integrated Pest Management Act.

#### Pesticide Applicators

The IPMC shall ensure that applicators follow State regulations, including licensing requirements and label precautions, and must comply with all components of the School Integrated Pest Management Policy.

#### Evaluation

The Superintendent will report annually to the Board on the effectiveness of the IPM Plan and make recommendations for improvement as needed.

The school district's Integrated Pest Management Plan, Policy and Regulation shall be implemented not later than June 12, 2004. The Board directs the Superintendent to develop Regulations/Procedures for the implementation of School Integrated Pest Management Plan.

N.J.S.A. 13:1F-19 through 13:1F-33

Adopted: 16 June 2008

# MATERIAL SAFETY DATA SHEET

## TRANSPORT® MIKRON INSECTICIDE

MSDS #: 6549-A  
Revision date: 2015-03-24  
Version 1.02



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200  
And Canadian Workplace Hazardous Materials Information System (WHMIS) requirements.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	TRANSPORT® MIKRON INSECTICIDE
Formula code	006549
Active Ingredient(s)	Bifenthrin, Acetamiprid
Synonyms	<p>BIFENTHRIN: (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name); 2-methylbiphenyl-3-ylmethyl (Z)-{(1R)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name);</p> <p>ACETAMIPRID: (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine;(2E)-1-{(6-chloro-3-pyridinyl)methyl}-N-nitro-2-imidazolidinimine</p>
Chemical Family	Pyrethroid Pesticide, Neonicotinoid
Recommended Use:	Insecticide
<u>Manufacturer/Supplier</u> FMC Corporation Agricultural Solutions 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com	<u>Emergency telephone number</u>  For leak, fire, spill or accident emergencies, call: 1 800 / 424 9300 (CHEMTREC - U.S.A.) 1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries) Medical Emergencies: 1 800 / 331-3148 (PROSAR - U.S.A. & Canada) 1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

### 2. HAZARDS IDENTIFICATION

<u>Appearance</u>	Liquid
<u>Physical State</u>	Liquid
<u>Odor</u>	No information available
<u>Potential Health Effects</u> Principal Routes of Exposure	Skin Contact, Eye Contact, Inhalation, Ingestion
Acute Effects Eyes Skin Inhalation	<p>May cause slight irritation.</p> <p>Substance may cause slight skin irritation.</p> <p>Harmful by inhalation. May cause irritation of respiratory tract.</p>

**TRANSPORT® MIKRON INSECTICIDE**

MSDS #: 6549-A

Revision date: 2015-03-24

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<b>Ingestion</b>	Harmful if swallowed. May cause central nervous system depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Chronic Effects</b>	Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure. Acetamiprid: Prolonged exposure in animal studies caused nonspecific toxicity observed as decreases in body weight and food consumption.
<b>Environmental Hazard</b>	See Section 12 for additional Ecological Information.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

Chemical name	CAS-No	Weight %
Bifenthrin	82657-04-3	6
Acetamiprid	135410-20-7	5
Propylene Carbonate S	108-32-7	5-10

**4. FIRST AID MEASURES**

<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>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>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) 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.
<b>Notes to Physician</b>	This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Use CO <sub>2</sub> , dry chemical, or foam.
<b>Hazardous Combustion Products</b>	Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride, Chlorine, Fluorine.
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus and full protective gear.

**NEPA**

<b>Health Hazards</b>	2
<b>Flammability</b>	1
<b>Stability</b>	0
<b>Special Hazards</b>	-



**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.
<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>	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
<b>Storage</b>	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.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b><u>Exposure Guidelines</u></b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
<b><u>Occupational exposure controls</u></b>	
<b>Engineering measures</b>	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.
<b><u>Personal protective equipment</u></b>	
<b>General information</b>	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.
<b>Respiratory Protection</b>	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.
<b>Eye/Face Protection</b>	If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.
<b>Skin and Body Protection</b>	Wear long-sleeved shirt, long pants, socks, and shoes.
<b>Hand Protection</b>	Protective gloves
<b>Hygiene measures</b>	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.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Liquid
Physical State	Liquid
Odor	No information available
pH	5.5
Freezing Point	Not applicable
Boiling Point/Range	Not applicable
Flash point	110 °C / 230 °F
Vapor pressure	No information available.
Vapor density	1.064 g/ml. (8.89 lb/gal)
Density	8.885 lb/gal
Water solubility	No information available
percent volatile	No information available.
Viscosity	No data available

## 10. STABILITY AND REACTIVITY

Stability	Stable.
Conditions to Avoid	Heat, flames and sparks.
Hazardous Decomposition Products	Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride, Chlorine, Fluorine.
Hazardous polymerization	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Effects

#### Acute toxicity

Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge. Bifenthrin does not cause acute delayed neurotoxicity. Experience to date indicates that contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

Eye Contact	Slightly or non-irritating (rabbit)
Skin Contact	Slightly or non-irritating (rabbit).
LD50 Dermal	> 5,000 mg/kg (rat)
LD50 Oral	1,035 mg/kg (rat)
LC50 Inhalation	> 2.2 mg/l. 4 hr (rat) - Maximum attainable concentration (zero mortality)
Sensitization	Non-sensitizing

### Chronic Effects

Chronic toxicity	Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure. Acetamiprid: Prolonged exposure in animal studies caused nonspecific toxicity observed as decreases in body weight and food consumption.
Carcinogenicity	Bifenthrin: Weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesion) in male mice. Acetamiprid: No evidence of carcinogenicity from animal studies.
Mutagenicity	Bifenthrin, Acetamiprid: Not genotoxic in laboratory studies.

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<b>Reproductive toxicity</b>	Bifenthrin: No toxicity to reproduction in animal studies. Acetamiprid: Reductions in pup weight, litter size, viability and weaning indices; delay in sexual maturity endpoints.
<b>Neurological effects</b>	Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure. Acetamiprid: Caused clinical signs of neurotoxicity (decreased locomotor activity, tremors) in animal studies.
<b>Developmental toxicity</b>	Bifenthrin, Acetamiprid: Not teratogenic in animal studies.
<b>Target organ effects</b>	Bifenthrin: Central Nervous System. Acetamiprid: No specific target organ toxicity; the liver effects were considered an adaptive response to chemicals rather than frank toxicity.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity effects**

<b>Bifenthrin (82657-04-3)</b>				
Active Ingredient(s)	Duration	Species	Value	Units
Bifenthrin	96 h LC50	Fish	0.1	µg/L
	72 h EC50	Algae	0.822	mg/L
	48 h EC50	Crustacea	0.11	µg/L
	21 d NOEC	Fish	0.012	µg/L
	21 d NOEC	Crustacea	0.0013	µg/L

<b>Acetamiprid (135410-20-7)</b>				
Active Ingredient(s)	Duration	Species	Value	Units
Acetamiprid	72 h EC50	Algae	>98.3	mg/L
	96 h LC50	Fish	>100	mg/L
	48 h LC50	Crustacea	49.8	mg/L
	21 d NOEC	Fish	19.2	mg/L
	21 d NOEC	Crustacea	5	mg/L

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Propylene Carbonate S	72 h EC50: 500 mg/L (EC50)	96 h LC50: > 1000 mg/L (Cyprinus carpio)		48 h EC50: 500 mg/L (Daphnia magna)

**Environmental Fate**

Chemical name	Partition coefficient
Propylene Carbonate S	0.48

<b>Persistence and degradability</b>	Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable. Acetamiprid: Non-persistent. Does not readily hydrolyze. Not readily biodegradable.
<b>Bioaccumulation</b>	Bifenthrin: The substance has a potential for bioconcentration. Acetamiprid: The substance does not have a potential for bioconcentration.
<b>Mobility</b>	Bifenthrin: Immobile. Not expected to reach groundwater. Acetamiprid: Moderately mobile. Has some potential to reach groundwater.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste disposal methods</b>	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.
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**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**

This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.

**TDG**

Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Marine Pollutant	Bifenthrin
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, PGIII, Marine Pollutant

**ICAO/IATA**

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Marine Pollutant	Bifenthrin
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, PGIII, Marine Pollutant

**IMDG/IMO**

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
EmS No.	F-A, S-F
Marine Pollutant	Bifenthrin
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, PGIII, Marine Pollutant

**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 %
Bifenthrin	82657-04-3	6	10

**SARA 311/312 Hazard Categories**

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

**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

## TRANSPORT® MIKRON INSECTICIDE

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Revision date: 2015-03-24  
Version 1.02

### International Regulations

#### Mexico - Grade

Moderate risk, Grade 2

#### CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2A - Very toxic materials



## 16. OTHER INFORMATION

Revision date: 2015-03-24  
Reason for revision: (M)SDS sections updated.

#### Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Use of this product is regulated by the U.S. Environmental Protection Agency (EPA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Further, since the conditions and methods of use are beyond the control of FMC Corporation, FMC corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared By:

FMC Corporation

FMC Logo - Trademark of FMC Corporation

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End of Safety Data Sheet

# MATERIAL SAFETY DATA SHEET

## TRANSPORT® TERMITICIDE INSECTICIDE



MSDS Ref. No.: F18-56-0

Date Approved: 06/04/2010

Revision No.: 3

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. The information contained herein is for the concentrate as packaged, unless otherwise noted.

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	TRANSPORT® TERMITICIDE INSECTICIDE
<b>PRODUCT CODE:</b>	6348
<b>ACTIVE INGREDIENT(S):</b>	Bifenthrin*; Acetamiprid**
<b>CHEMICAL FAMILY:</b>	Pyrethroid*; Neonicotinoid**
<b>MOLECULAR FORMULA:</b>	$C_{23}H_{22}ClF_3O_2^*$ ; $C_{10}H_{11}ClN_4^{**}$
<b>SYNONYMS:</b>	FMC 54800; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; IUPAC: 2-methylbiphenyl-3-ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate*; CAS: (1E)-N-[(6-chloro-3-pyridinyl)methyl]-N <sup>1</sup> -cyano-N-methylacetamidine; IUPAC:(E)-N <sup>1</sup> -[(6-chloro-3-pyridyl)methyl]-N <sup>2</sup> -cyano-N <sup>1</sup> -methyl**

Information for Bifenthrin\*; Information for Acetamiprid\*\*

## MANUFACTURER

FMC CORPORATION  
Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103  
(800) 321-1362 (General Information)  
msdsinfo@fmc.com (Email - General Information)

## EMERGENCY TELEPHONE NUMBERS

(800) 331-3148 (Medical - U.S.A. & Canada)  
(651) 632-6793 (Medical - Collect - All Other Countries)

For leak, fire, spill, or accident emergencies, call:  
(800) 424-9300 (CHEMTREC - U.S.A. & Canada)  
(703) 527-3887 (CHEMTREC - Collect - All Other Countries)

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## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

- White powder with a faint, slightly sweet odor.
- Slightly combustible. May support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- May be harmful if swallowed.
- Irritating to the eyes.
- Prolonged, repeated exposure to respirable crystalline silica can cause silicosis or possibly cancer. See section 11 for additional details.
- Highly toxic to fish and aquatic organisms. Keep out of drains and water courses.

**POTENTIAL HEALTH EFFECTS:** Effects from overexposure may result from either swallowing or coming into contact with the skin or eyes. Signs of exposure include ataxia, tachypnea, tremors, rhinorrhea, lethargy, sagging eyelids, shallow breathing and abdominal bloating. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

**MEDICAL CONDITIONS AGGRAVATED:** None presently known.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt. %	EC No.	EC Class
Bifenthrin	82657-04-3	27.27	None	T, Xn, Xi, N; R25-20-43-50/53
Acetamiprid	135410-20-7	22.73	None	Not classified
Synthetic amorphous silica	112926-00-8	<33	231-545-4	Not classified
Surfactant Blend		<7.4	None	Not classified
Silica, quartz	14808-60-7	<0.8	238-878-4	Not classified in Annex I

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## 4. FIRST AID MEASURES

**EYES:** Flush with plenty of water. Get medical attention if irritation occurs and persists.

**SKIN:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

**INGESTION:** Drink plenty of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

**INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

**NOTES TO MEDICAL DOCTOR:** This product has low oral, dermal and inhalation toxicity. It is irritating to the eyes and non-irritating to the skin. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

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## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub> or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

**FIRE / EXPLOSION HAZARDS:** Slightly combustible. This material may support combustion at elevated temperatures.

**FIRE FIGHTING PROCEDURES:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

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## 6. ACCIDENTAL RELEASE MEASURES

**RELEASE NOTES:** Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area.

Keep material out of streams and sewers. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.

To clean and neutralize contaminated area, scrub area with a solution of detergent (e.g. commercial product such as SuperSoap™, Tide®, Spic and Span®, or other high pH detergent) and water. Let solution sit for 5 minutes. Use a stiff brush to scrub affected area. Repeat if necessary to remove visible staining. Additional decontamination can be made by applying bleach (Clorox® or equivalent) to affected area.

Absorb wash-liquid as noted above, remove visibly contaminated soil and place into recovery / disposal container (plastic, open-top steel drum or equivalent). Place all clean-up material in a container, seal and dispose of in accordance with the method outlined in Section 13 "Disposal Considerations" below.

For further information on spill clean-up, waste disposal, or return of salvaged product, call the FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.



## 7. HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not remove packages from container except for immediate use. Do not store at temperatures below 0°C (32°F). Rough handling may cause breakage, especially at low temperatures. Allow to warm above 10°C (50°F) before use. Do not allow inner bags to become wet during storage. Do not handle inner bag with wet hands or wet gloves. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
Synthetic amorphous silica		(TWA) (80/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> )	
Silica, quartz	0.025 mg/m <sup>3</sup> (8-hour TWA) (respirable fraction)	(10/(% SiO <sub>2</sub> + 2) mg/m <sup>3</sup> (8-hour TWA, respirable dust)) (30/(% SiO <sub>2</sub> + 2) mg/m <sup>3</sup> (8-hour TWA, total dust))	

**ENGINEERING CONTROLS:** No open flames. Prevent deposition of dust; use closed system, consider use of dust explosion-proof electrical equipment and lighting. Use local exhaust at all process locations where dust may be emitted. Ventilate all transport vehicles prior to unloading.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For dust exposure, wear chemical protective goggles or a face shield with safety glasses.

**RESPIRATORY:** APPLICATORS / END-USERS: None required for proper use and handling. ALL OTHERS: For dust exposures wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator, which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

**PROTECTIVE CLOTHING:** Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a rubber rain suit. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. Leather items -such as shoes, belts and watchbands - that become contaminated should also be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

**GLOVES:** Wear chemical resistant, waterproof gloves. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

**WORK HYGIENIC PRACTICES:** 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 at the end of the workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>ODOR:</b>	Faint, slightly sweet
<b>APPEARANCE:</b>	White powder
<b>DENSITY / WEIGHT PER VOLUME:</b>	Loose: 0.1538 g/mL (9.6 lb/cu ft); Tapped: 0.2151 g/mL (13.43 lb/cu ft)
<b>FLASH POINT:</b>	Not applicable
<b>MOLECULAR WEIGHT:</b>	422.9 (bifenthrin) 222.7 (acetamiprid)
<b>pH:</b>	7.0 (± 0.5) (1% dispersion)

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## 10. STABILITY AND REACTIVITY

<b>CONDITIONS TO AVOID:</b>	Excessive heat and fire.
<b>STABILITY:</b>	Stable
<b>POLYMERIZATION:</b>	Will not occur
<b>INCOMPATIBLE MATERIALS:</b>	Strong bases, acids and oxidizing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

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## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Irritating (rabbit)

**SKIN EFFECTS:** Non-irritating (rabbit)

**DERMAL LD<sub>50</sub>:** > 2,000 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** > 550 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** > 0.51 mg/l (4 h) (rat) Maximum attainable concentration - zero mortality

**SENSITIZATION:** (Skin) Non-sensitizing (guinea pig)

**ACUTE EFFECTS FROM OVEREXPOSURE:** This product has low oral, dermal and inhalation toxicity. It is irritating to the eyes and non-irritating to the skin. It is non-sensitizing to the skin. No other acute toxicity information is available at this time.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** No data available for the formulation. In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to bifenthrin. In lifetime feeding studies conducted with laboratory animals, a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with bifenthrin.

In long term animal feeding studies with Acetamiprid, there was no evidence of carcinogenicity. In reproductive and developmental studies in animals, there was no effect on reproduction. Acetamiprid is not considered a carcinogen, mutagen or reproductive toxicant.

No adverse effects of pulmonary function or lung damage in workers were observed from long-term exposure to dusts of amorphous precipitated silica, silica gel containing no asbestos and <1% crystalline silica.

Repeated overexposure to crystalline silica for extended periods has caused acute silicosis. IARC has classified crystalline silica, inhaled in the form of quartz or cristobalite from occupational sources, as carcinogenic to humans (Group 1). NTP has classified respirable crystalline silica (quartz, cristobalite and tridymite) as "known to be a human carcinogen". The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that silica quartz is a suspected human carcinogen (A2 - limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans).

#### CARCINOGENICITY:

Chemical Name	IARC	NTP	OSHA	Other
Synthetic amorphous silica	3	Not listed	Not listed	(ACGIH) Not listed
Silica, quartz	1	Known Carcinogen	Not listed	(ACGIH) A2

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## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available for the formulation.

Bifenthrin has moderate stability in the soil under aerobic conditions (half-life range from 65 - 125 days depending on soil type) and is stable at a wide range of pH values. Bifenthrin has a high Log Pow (6.6), a high affinity for organic matter, and is not mobile in soil. Therefore, there is little potential for movement into ground water. There is the potential for bifenthrin to bioconcentrate (BCF <2,000).

Acetamiprid degrades rapidly by aerobic soil metabolism. There are no major issues for soil mobility since low use rate and rapid degradation reduce the amount for offsite movement. Environmental residues in drinking water are predicted to be low. Acetamiprid will not bioaccumulate in fish and in sediment, and it poses low risks to the environment relative to most other insecticides.

**ECOTOXICOLOGICAL INFORMATION:** No data available for the formulation.

Bifenthrin is highly toxic to fish and aquatic arthropods and LC<sub>50</sub> values range from 0.0038 to 17.8 µg/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on mollusks at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds (LD<sub>50</sub> values range from 1,800 mg/kg to >2,150 mg/kg).

Acetamiprid use would pose minimal risk to fish and wildlife. Toxicity of Acetamiprid is selective to insects, but some uses may pose a risk to certain non-target aquatic invertebrates. It is only moderately toxic to bees. Acetamiprid use would generally pose low risk to threatened and endangered species, and it would pose minimal risk to non-target plants.

LD<sub>50</sub> > 180 mg/kg (oral, Bobwhite quail)  
LC<sub>50</sub> (48-hour) > 100 mg/L (Carp)  
LC<sub>50</sub> (24-hour) > 200 mg/L (Daphnia magna)  
LD<sub>50</sub> = 7.1 µg (Honey bee contact)  
LC<sub>50</sub> (96-hour) = 119.3 g/m<sup>3</sup> (Rainbow Trout)  
EC<sub>50</sub> (72-hour) > 98.3 mg/L (Algae)

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

**EMPTY CONTAINER:** Non-returnable containers that held this material should be cleaned, prior to disposal, by triple rinsing. Containers which held this material may be cleaned by being triple-rinsed, and recycled, with the rinsate being incinerated. Do not cut or weld metal containers. Vapors that form may create an explosion hazard. If burned, stay out of smoke.

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## 14. TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION (DOT)

<b>PACKAGING TYPE:</b>	Non-Bulk
<b>PROPER SHIPPING NAME:</b>	Not regulated as a hazardous material
<b>PACKAGING TYPE:</b>	Bulk
<b>PROPER SHIPPING NAME:</b>	Environmentally hazardous substance, solid, n.o.s.
<b>TECHNICAL NAME(S):</b>	Bifenthrin
<b>PRIMARY HAZARD CLASS / DIVISION:</b>	9

UN/NA NUMBER: UN 3077  
PACKING GROUP: III  
MARINE POLLUTANT: Bifenthrin

**INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)**

PACKAGING TYPE: Non-Bulk  
PROPER SHIPPING NAME: Environmentally hazardous substance,  
solid, n.o.s.  
TECHNICAL NAME(S): Bifenthrin  
PRIMARY HAZARD CLASS / DIVISION: 9  
UN/NA NUMBER: UN 3077  
PACKING GROUP: III  
MARINE POLLUTANT: Bifenthrin  
ADDITIONAL INFORMATION: EmS Number: F-A, S-F

**ADR - EUROPEAN AGREEMENT CONCERNING THE  
INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD**

PACKAGING TYPE: Non-Bulk  
PROPER SHIPPING NAME: Environmentally hazardous substance,  
solid, n.o.s.  
TECHNICAL NAME(S): Bifenthrin  
PRIMARY HAZARD CLASS / DIVISION: 9  
CLASSIFICATION CODE: M7  
UN/NA NUMBER: UN3077  
PACKING GROUP: III  
HAZARD IDENTIFICATION NUMBER: 90  
ADDITIONAL INFORMATION: Environmentally Hazardous Substance:  
Bifenthrin

**INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) /  
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)**

PACKAGING TYPE: Non-Bulk  
PROPER SHIPPING NAME: Environmentally hazardous substance.

	solid, n.o.s.
<b>TECHNICAL NAME(S):</b>	Bifenthrin
<b>PRIMARY HAZARD CLASS / DIVISION:</b>	9
<b>UN/NA NUMBER:</b>	UN3077
<b>PACKING GROUP:</b>	III
<b>ADDITIONAL INFORMATION:</b>	Environmentally Hazardous Substance: Bifenthrin

**OTHER INFORMATION:**

HARMONIZED SYSTEM

Import to the U.S.A.: 3808.91.2500

Export from the U.S.A.: 3808.91.0000

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## 15. REGULATORY INFORMATION

### UNITED STATES

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):**

Not listed

**SECTION 311 HAZARD CATEGORIES (40 CFR 370):**

Immediate, Delayed

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):**

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:

None

**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):**

This product contains the following ingredients subject to Section 313 reporting requirements:

Bifenthrin

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)****CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):**

Not listed

**FEDERAL INSECTICIDE FUNGICIDE RODENTICIDE ACT**

U.S. EPA Signal Word: CAUTION

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## 16. OTHER INFORMATION

### NFPA

Health	2
Flammability	1
Reactivity	0
Special	None

No special requirements

NFPA (National Fire Protection Association)

Degree of Hazard Code:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

### **REVISION SUMMARY:**

This MSDS replaces Revision #2, dated October 22, 2007.

Changes in information are as follows:

Section 1 (Product and Company Identification)

Section 3 (Composition / Information on Ingredients)

Section 8 (Exposure Controls / Personal Protection)

Section 14 (Transport Information)

Section 15 (Regulatory Information)

Section 16 (Other Information)

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FMC Logo - Trademark of FMC Corporation

SuperSoap - Trademark of Webu Technologies, Inc.; Tide - Trademark of Proctor and Gamble; Spic and

Span: Trademark of The Spic and Span Company; Clorox - Trademark of The Clorox Company

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**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

1/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

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

**Product identifier**

**Trade name** TEMPO® 1% DUST INSECTICIDE READY TO USE  
**Product code (UVP)** 05173213  
**SDS Number** 102000006700  
**EPA Registration No.** 432-1373

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

**Use** Insecticide  
**Restrictions on use** See product label for restrictions.

**Information on manufacturer**

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

**Emergency telephone no.**

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

**Product Information Telephone Number** 1-800-331-2867

**SDS Information or Request** SDSINFO.BCS-NA@bayer.com

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Acute toxicity (Oral): Category 4

Eye irritation : Category 2B



**Signal word** Warning

**Hazard statements**

Harmful if swallowed.  
Causes eye irritation.

**Precautionary statements**

Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.

**Bayer Environmental Science**  
SAFETY DATA SHEET



**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

2/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Rinse mouth.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.  
Dispose of contents/container in accordance with local regulation.

**Other hazards**

No other hazards known.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Cyfluthrin	68359-37-5	1.00
Crystalline quartz (respirable)	14808-60-7	4.88
Calcium sulfate	13397-24-5	89.30

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**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<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 physician or poison control center immediately.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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 patient's condition is recommended. There is no specific antidote.

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**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

3/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
**Unsuitable** High volume water jet

**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. Cool closed containers exposed to fire with water spray. 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

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

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

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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**SECTION 7: HANDLING AND STORAGE**



**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

4/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

**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 Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** 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.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Cyfluthrin	68359-37-5	0.01 mg/m3 (TWA)		OES BCS*
Cyfluthrin (Particulate.)	68359-37-5	5ug/m3 (AN ESL)	02 2013	TX ESL
Cyfluthrin (Particulate.)	68359-37-5	50ug/m3 (ST ESL)	02 2013	TX ESL
Crystalline quartz (respirable)	14808-60-7	0.1 mg/m3 (TWA)	1998	JO TLV
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
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	14ug/m3 (ST ESL)	02 2013	TX ESL



**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

5/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

Crystalline quartz (respirable) (Particulate.)	14808-60-7	0.27ug/m3 (AN ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
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
Calcium sulfate (Inhalable fraction.)	13397-24-5	10 mg/m3 (TWA)	02 2012	ACGIH
Calcium sulfate (Total)	13397-24-5	10 mg/m3 (REL)	2010	NIOSH
Calcium sulfate (Respirable.)	13397-24-5	5 mg/m3 (REL)	2010	NIOSH
Calcium sulfate (Total dust.)	13397-24-5	15 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium sulfate (Respirable fraction.)	13397-24-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium sulfate (Total dust.)	13397-24-5	15 mg/m3 (TWA)	1989	OSHA Z1A
Calcium sulfate (Respirable fraction.)	13397-24-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Calcium sulfate	13397-24-5	5ug/m3 (AN ESL)	03 2012	TX ESL
Calcium sulfate	13397-24-5	50ug/m3 (ST ESL)	03 2012	TX ESL
Silica, amorphe	7631-86-9	6 mg/m3 (REL)	2010	NIOSH
Silica, amorphe (Particulate.)	7631-86-9	27ug/m3 (ST ESL)	02 2013	TX ESL
Silica, amorphe (Particulate.)	7631-86-9	2ug/m3 (AN ESL)	02 2013	TX ESL
Silica, amorphe	7631-86-9	0.8 mg/m3 (TWA)	2000	Z3
Silica, amorphe	7631-86-9	20millions of particles per cubic foot of air (TWA)	2000	Z3

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



**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

6/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

**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.

<b>Respiratory protection</b>	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.
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves
<b>Eye protection</b>	Goggles
<b>Skin and body protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>General protective measures</b>	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**

<b>Appearance</b>	white to light beige
<b>Physical State</b>	powder
<b>Odor</b>	musty
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Vapor Pressure</b>	not applicable
<b>Vapor Density (Air = 1)</b>	not applicable
<b>Bulk density</b>	61 lb/ft <sup>3</sup> (bulk density tapped) 35 lb/ft <sup>3</sup> (loose)
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	not applicable
<b>Melting / Freezing Point</b>	not applicable
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	ca. 500 °C
<b>Partition coefficient: n-octanol/water</b>	not applicable
<b>Viscosity</b>	not applicable



**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

7/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

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Flash point	not applicable
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available

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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

Thermal decomposition	ca. 500 °C
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Exposure to moisture.
Incompatible materials	no data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes	Inhalation, Eye contact, Skin Absorption, Ingestion
Immediate Effects	
Eye	Moderate eye irritation.
Skin	Can cause irritation to the skin resulting in effects such as burning and/or tingling sensation. May cause irritation, redness. Harmful if absorbed through skin.
Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled. May cause upper respiratory tract irritation.
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 (male/female combined rat) > 1.18 mg/l Exposure time: 4 h Determined in the form of dust. Highest attainable concentration.





**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

8/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

	No deaths
	LC50 (male/female combined rat) > 4.72 mg/l
	Exposure time: 1 h
	Determined in the form of dust.
	Extrapolated from the 4 hr LC50.
<b>Acute dermal toxicity</b>	LD50 (male/female combined rabbit) > 2,000 mg/kg
<b>Skin irritation</b>	Slight irritation (rabbit)
<b>Eye irritation</b>	Mild eye irritation. (rabbit)
<b>Sensitisation</b>	Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**

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

**Assessment Mutagenicity**

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

**Assessment Carcinogenicity**

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

**ACGIH**

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

Crystalline quartz (respirable)	14808-60-7	2000
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**IARC**

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

None.

**Assessment toxicity to reproduction**

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 Cyfluthrin is related to parental toxicity.

**Assessment developmental toxicity**

Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with 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).

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**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (Rainbow trout)) 0.00047 mg/l
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**TEMPO® 1% DUST INSECTICIDE READY TO USE**

9/11

Version 3.0 / USA  
102000006700

Revision Date: 09/19/2014  
Print Date: 02/09/2015

	Exposure time: 96 h The value mentioned relates to the active ingredient cyfluthrin.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Water flea ( <i>Daphnia magna</i> )) 0.00016 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient cyfluthrin.
<b>Toxicity to aquatic plants</b>	IC50 ( <i>Desmodesmus subspicatus</i> ) > 10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient cyfluthrin.
<b>Biodegradability</b>	Cyfluthrin: ; not rapidly biodegradable
<b>Koc</b>	Cyfluthrin: Koc: 64300
<b>Bioaccumulation</b>	Cyfluthrin: Bioconcentration factor (BCF) 506; Does not bioaccumulate.
<b>Mobility in soil</b>	Cyfluthrin: Immobile in soil
<b>Environmental precautions</b>	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

<b>Product</b>	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Dispose in accordance with all local, state/provincial and federal regulations.
<b>Contaminated packaging</b>	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.
<b>RCRA Information</b>	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.

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**SECTION 14: TRANSPORT INFORMATION**

<b>49CFR</b>	Not dangerous goods / not hazardous material
<b>IMDG</b>	
UN number	3077



**TEMPO® 1% DUST INSECTICIDE READY TO USE**

10/11

Version 3.0 / USA  
102000006700

Revision Date: 09/19/2014  
Print Date: 02/09/2015

Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYFLUTHRINE MIXTURE)

**IATA**

UN number	3077
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYFLUTHRINE 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

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**SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 432-1373

**US Federal Regulations**

**TSCA list**

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**

Cyfluthrin	68359-37-5	10,000lbs
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**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

**US State Right-To-Know Ingredients**

Cyfluthrin	68359-37-5	NJ
Crystalline quartz (respirable)	14808-60-7	MN

**Canadian Regulations**

**Canadian Domestic Substance List**

Crystalline quartz (respirable)	14808-60-7
Calcium sulfate	13397-24-5



**TEMPO® 1% DUST INSECTICIDE READY TO USE**

Version 3.0 / USA  
102000006700

11/11  
Revision Date: 09/19/2014  
Print Date: 02/09/2015

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**

Cyfluthrin 68359-37-5

Crystalline quartz (respirable) 14808-60-7

**EPA/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 required on the pesticide label:

**Signal word:** Caution!

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

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**SECTION 16: OTHER INFORMATION**

**NFPA 704 (National Fire Protection Association):**

Health - 2      Flammability - 1      Instability - 0      Others - none

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

Health - 2      Flammability - 1      Physical Hazard - 0      PPE -

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

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 09/19/2014

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