

Version 3 / USA 102000012961

1/10 Revision Date: 10/16/2013 Print Date: 03/22/2018

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

#### **Product identifier**

Trade name Product code (UVP) SDS Number EPA Registration No. TOPCHOICE® INSECTICIDE 05727986 102000012961 432-1217

Relevant identified uses of the substance or mixture and uses advised againstUseInsecticideRestrictions on useSee product label for restrictions.

#### Information on manufacturer

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

Emergency telephone no. All Emergencies, 24hr/ 7 days 1-800-334-7577

Product Information Telephone No.

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

### SECTION 2: HAZARDS IDENTIFICATION

**Classification in accordance with regulation HCS 29CFR §1910.1200** Eye irritation : Category 2B Specific target organ toxicity - repeated exposure : Category 2



Signal word: Warning

#### Hazard statements

Causes eye irritation. May cause damage to organs (liver) through prolonged or repeated exposure.

#### **Precautionary statements**

Wash thoroughly after handling. Do not breathe dust. Get medical advice/attention if you feel unwell. 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.



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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.	Average % by Weight
Fipronil	120068-37-3	0.0143

### **SECTION 4: FIRST AID MEASURES**

Description	of	first	aid	measures
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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 a	nd effects, both acute and delayed	
Symptoms	Symptoms of Overexposure, Lethargy, Tremors, Convulsions	
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.	

### **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media	
Suitable	Water spray, Foam, Dry chemical, Carbon dioxide (CO2)



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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. 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

### 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 con	ntainment and cleaning up
Methods for cleaning up	Avoid dust formation. Collect and transfer the product into a properly labelled and tightly closed container. 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.

### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling		
Advice on safe handling	Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.	
Hygiene measures	Wash hands thoroughly with soap and water after handling and	



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

Conditions for safe storage, including any incompatibilities

**Requirements for storage** 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
Fipronil	120068-37-3	0.035 mg/m3 (TWA)		OES BCS*
Fipronil	120068-37-3	50 ug/m3 (ST ESL)	03 2012	TX ESL
Fipronil	120068-37-3	5 ug/m3 (AN ESL)	03 2012	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	Waterproof gloves
Eye protection	Safety glasses with side-shields
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	light grey to brown
Physical State	granular
Odor	odourless
Odour Threshold	no data available
рН	8.1 (1 %)
Vapor Pressure	no data available
Vapor Density (Air = 1)	not applicable
Bulk density	46 - 50 lbs/cu.ft.
Evapouration rate	not applicable
Boiling Point	not applicable
Melting / Freezing Point	not applicable
Water solubility	dispersible
Water solubility Minimum Ignition Energy	dispersible no data available
-	
Minimum Ignition Energy Decomposition	no data available
Minimum Ignition Energy Decomposition temperature Partition coefficient: n-	no data available no data available
Minimum Ignition Energy Decomposition temperature Partition coefficient: n- octanol/water	no data available no data available no data available
Minimum Ignition Energy Decomposition temperature Partition coefficient: n- octanol/water Viscosity	no data available no data available no data available not applicable
Minimum Ignition Energy Decomposition temperature Partition coefficient: n- octanol/water Viscosity Flash point	no data available no data available no data available not applicable not applicable
Minimum Ignition Energy Decomposition temperature Partition coefficient: n- octanol/water Viscosity Flash point Autoignition temperature	no data available no data available no data available not applicable not applicable no data available



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### SECTION 10: STABILITY AND REACTIVITY

Reactivity Thermal decomposition	no data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight. Heat, flames and sparks.
Incompatible materials	Strong acids, Strong bases, Strong oxidizing agents
Hazardous decomposition products	Thermal decomposition can lead to release of: Carbon oxides Sulphur compounds

### **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes	Ingestion, Eye contact, Skin Absorption, Inhalation	
Immediate Effects Eye	Causes eye irritation.	
Skin	Harmful if absorbed through skin. May cause skin irritation.	
Ingestion	Ingestion of high doses is harmful.	
Inhalation	No specific effects on humans are known under normal use conditions.	
Information on toxicological effects		
Acute oral toxicity	LD50 (male/female combined rat) > 5,000 mg/kg	
Acute inhalation toxicity	LC50 (male/female combined rat) > 5.2 mg/l Exposure time: 4 h Determined in the form of dust. (actual)	
	LC50 (male/female combined rat) > 20 mg/l Exposure time: 1 h Determined in the form of dust. Extrapolated from the 4 hr LC50. (actual)	



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Acute dermal toxicity	LD50 (male/female combined rabbit) > 2,000 mg/kg
Skin irritation	No skin irritation (rabbit)
Eye irritation	Mild eye irritation. (rabbit)
Sensitisation	Non-sensitizing. (guinea pig)

#### Assessment repeated dose toxicity

Fipronil caused specific target organ toxicity in experimental animal studies in the following organ(s): liver. Fipronil caused neurobehavioral effects and/or neuropathological changes in animal studies.

#### **Assessment Mutagenicity**

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

### Assessment Carcinogenicity

Fipronil caused an increased incidence of tumours in rats in the following organ(s): thyroid. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

#### ACGIH

None.

#### NTP

None.

IARC

None.

### OSHA

None.

### Assessment toxicity to reproduction

Fipronil 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 Fipronil is related to parental toxicity.

### Assessment developmental toxicity

Fipronil did not cause developmental toxicity in rats and rabbits.

### SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish

LC50 (Lepomis macrochirus (Bluegill sunfish)) 85  $\mu$ g/l flow-through test; Exposure time: 96 h The value mentioned relates to the active ingredient fipronil.



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	LC50 (Rainbow trout (Oncorhynchus mykiss)) 248 µg/l flow-through test; Exposure time: 96 h The value mentioned relates to the active ingredient fipronil.			
Toxicity to aquatic invertebrates	EC50 (Daphnia) 190 μg/l flow-through test; Exposure time: 48 h The value mentioned relates to the active ingredient fipronil.			
Toxicity to other organisms	LC50 (Anas platyrhynchos (Mallard duck)) > 5,000 mg/kg Exposure time: 8 d The value mentioned relates to the active ingredient fipronil.			
	LC50 (Colinus virginianus (Bobwhite quail)) 48 mg/kg Exposure time: 8 d The value mentioned relates to the active ingredient fipronil.			
Biodegradability	Fipronil: not rapidly biodegradable			
Кос	Fipronil: Koc:427 - 1278			
Bioaccumulation	Fipronil: Bioconcentration factor (BCF) 321			
Mobility in soil	Does not bioaccumulate. Fipronil: Slightly mobile in soils			
Environmental precautions	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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.			

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product	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.
Contaminated packaging	Do not re-use empty containers. Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations. If burned, stay out of smoke.



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**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**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

Freight Classification:

INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

### **SECTION 15: REGULATORY INFORMATION**

EPA Registration No. US Federal Regulations TSCA list None.	432-1217				
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 None.					
US States Regulatory Reporting CA Prop65	9				
•	n any substances known to the State of California to cause cancer.				
This product does not contai reproductive harm. <b>US State Right-To-Know In</b> None.	n any substances known to the State of California to cause gredients				
Canadian Regulations Canadian Domestic Substa None.	ance List				
Environmental CERCLA					
None. Clean Water Section 307 P	riority Pollutants				
None.	aximum Contaminant Levels				

**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:	Harmful if absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

### **SECTION 16: OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):						
Health - 1	Flammability - 0	Instability - 0	Others - none			
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide) Health - 1 Flammability - 0 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)

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This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.