

TOPCHOICE® INSECTICIDE

 Version 3 / USA
 Revision Date: 10/16/2013

 102000012961
 Print Date: 01/05/2017

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

Product identifier

Trade name TOPCHOICE® INSECTICIDE

 Product code (UVP)
 05727986

 SDS Number
 102000012961

 EPA Registration No.
 432-1217

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.

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 NameCAS-No.Average % by WeightFipronil120068-37-30.0143

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 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 containment 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 areas and containers

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

no data available **Odour Threshold**

pН 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

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

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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 μg/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

Koc Fipronil: Koc:427 - 1278

Bioaccumulation Fipronil: Bioconcentration factor (BCF) 321

Does not bioaccumulate.

Mobility in soil 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.

SECTION 15: REGULATORY INFORMATION

EPA Registration No.

US Federal Regulations

TSCA list

None.

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

SARA Title III - Section 313 - Toxic Chemical Release Reporting

432-1217

None.

US States Regulatory Reporting

CA Prop65

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

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

US State Right-To-Know Ingredients

None.

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

Safe Drinking Water Act Maximum Contaminant Levels

None.

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



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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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