

**Safety Data Sheet****DECIS® 5 EC INSECTICIDE**

SDS Number: 102000003150

SDS Version 2.1

Revision Date: 05/20/2013

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SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	DECIS® 5 EC INSECTICIDE
SDS Number	102000003150
Product code (UVP)	05946263
PCP Registration No.	22478
Product Use	Insecticide

Bayer CropScience Inc
#200, 160 Quarry Park Blvd, SE
Calgary, Alberta T2C 3G3
Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview

Danger! Keep out of the reach of children. Fatal if swallowed, inhaled or absorbed through the skin. Irritating to eyes, respiratory system and skin. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist.

Physical State Liquid

Odor aromatic

Appearance colourless to light yellow

Exposure routes Eye contact, Skin contact, Inhalation, Ingestion

Immediate Effects

Eye May cause severe eye irritation. Avoid contact with eyes.

Skin Fatal if absorbed through the skin. Avoid contact with skin and clothing. Causes skin irritation.

Ingestion Fatal if swallowed. Do not take internally.

Inhalation Fatal if inhaled. Avoid inhalation of vapour or mist. May cause upper respiratory tract irritation.

Chronic or Delayed Long-Term This product or its components may have long term (chronic) health effects.

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SDS Version 2.1**Potential Environmental Effect** Toxic to fish and aquatic organisms. Toxic to bees.**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Deltamethrin	52918-63-5	5.00
Xylene	1330-20-7	86.50

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	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.
Skin	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.
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.
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.
Notes to physician Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	31 °C / 88 °F
Autoignition temperature	no data available
Lower Flammability Limit	no data available
Upper Flammability Limit	no data available

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Explosiveness	not applicable
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Fire Fighting Instructions	<p>Keep out of smoke. Fight fire from upwind position. Avoid contact with spilled product or contaminated surfaces. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Remove all sources of ignition.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional advice	Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE

Handling procedures	<p>Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.</p> <p>Keep away from heat and sources of ignition.</p>
Storing Procedures	<p>Store in original container. 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.</p> <p>Protect from freezing.</p>
Work/Hygienic Procedures	<p>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Smoking, eating and drinking should be prohibited in the application area.</p> <p>Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.</p>



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	Follow all label instructions. Train employees in safe use of the product. 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.
Eye/Face Protection	Chemical resistant goggles must be worn.
Hand protection	Chemical resistant nitrile rubber gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
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.

Exposure Limits

Deltamethrin	52918-63-5	OES BCS*	TWA	0.02 mg/m ³
Xylene	1330-20-7	OES BCS*	TWA	100 ppm
		CAD AB OEL	STEL	150 ppm
		CAD AB OEL	TWA	100 ppm
		CAD BC OEL	TWA	0.5 ppm
		CAD BC OEL	STEL	150 ppm
		CAD BC OEL	TWA	100 ppm
		OEL (QUE)	STEL	150 ppm
		OEL (QUE)	TWA	100 ppm

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	colourless to light yellow
Physical State	Liquid
Odor	aromatic
pH	4.0 - 6.5 (5 %)
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available

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Density	0.90 g/cm ³ at 20 °C
Evaporation rate	no data available
Boiling Point	no data available
Melting / Freezing Point	no data available
Water solubility	emulsifiable
Minimum Ignition Energy	not applicable
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	no data available
Viscosity	no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	freezing Heat, flames and sparks.
Incompatibility	Strong oxidizing agents Strong acids Strong bases
Hazardous Decomposition Products	Thermal decomposition can lead to release of: Carbon monoxide Carbon dioxide (CO ₂)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	male rat: LD50: 66.7 mg/kg female rat: LD50: 86 mg/kg
Acute dermal toxicity	rabbit: LD50: > 2,000 mg/kg



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Acute inhalation toxicity	male/female combined rat: LC50: 2.2 mg/l Exposure time: 4 h Determined in the form of dust.
	male/female combined rat: LC50: 8.8 mg/l Exposure time: 1 h Determined in the form of dust.
Skin irritation	rabbit: No skin irritation
Eye irritation	rabbit: Mild eye irritation.
Sensitisation	guinea pig: Non-sensitizing.
Chronic toxicity	Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Assessment Carcinogenicity

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

ACGIH

Xylene

1330-20-7

Group A4

NTP

None.

IARC

Deltamethrin

52918-63-5

Overall evaluation: 3

Xylene

1330-20-7

Overall evaluation: 3

OSHA

None.

Reproductive toxicity	Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.
Developmental Toxicity	Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.
Mutagenicity	Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

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**Environmental
precautions**

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

SECTION 13. DISPOSAL CONSIDERATIONS**General Disposal
Guidance**

Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Follow container label instructions for disposal of wastes generated during use in compliance with the product label.

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.

Container Disposal

Do not re-use empty containers. Triple rinse containers. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION**TDG**

UN number	2903
Labels	6.1 (3)
Packaging group	III
Description of the goods	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (DELTAMETHRIN, XYLENE)

49CFR

UN number	2903
Class	6.1 (3)
Packaging group	III
Description of the goods	PESTICIDES, LIQUID, TOXIC, FLAMMABLE, N.O.S. (DELTAMETHRIN, XYLENE)
RQ	Reportable Quantity is reached with 115 lb of product.

IMDG

UN number	2903
Class	6.1 (3)
Packaging group	III
Marine pollutant	NO
Description of the goods	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (DELTAMETHRIN, XYLENE SOLUTION)



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IATA

UN number	2903
Class	6.1 (3)
Packaging group	III
Environm. Hazardous Mark	NO
Description of the goods	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (DELTAMETHRIN, XYLENE SOLUTION)

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.

SECTION 15. REGULATORY INFORMATION

PCP Registration No. 22478

US Federal Regulations

TSCA list

Xylene 1330-20-7

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

Xylene 1330-20-7 1.0%

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

Xylene 1330-20-7 CA, CT, MI, MN, NJ

Canadian Regulations

Canadian Domestic Substance List

Xylene 1330-20-7

Environmental

CERCLA

Xylene 1330-20-7 100 lbs

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Deltamethrin 52918-63-5

Xylene 1330-20-7



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SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

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

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

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

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

Reason for Revision: Reviewed and updated for general editorial purposes.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

Revision Date: 05/20/2013

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