

SAFETY DATA SHEET



DECIS® 5 EC INSECTICIDE

Version 3.0 / CDN
102000003150

1/13
Revision Date: 10/27/2017
Print Date: 11/17/2017

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

Product identifier

Trade name DECIS® 5 EC INSECTICIDE

Product code (UVP) 05946263

SDS Number 102000003150

PCP Registration No. 17734 / 22478

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

Use Insecticide

Identified uses Professional use

Restrictions on use See product label for restrictions.

Information on supplier

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

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

Emergency telephone no.

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

Product Information Telephone Number 1-888-283-6847

SECTION 2: HAZARDS IDENTIFICATION

Classified in accordance with Part 2 of the Hazardous Products Regulations

Serious eye damage, Aspiration hazard: Category 1

Carcinogenicity, Skin irritation, Specific target organ toxicity - repeated exposure: Category 2

Specific target organ toxicity - repeated exposure: Category 3

Acute toxicity(Oral, Inhalation): Category 4

Flammable liquids: Category 3

Labelling in accordance with Part 3 of the Hazardous Products Regulations



Signal word: Danger

Hazard statements

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Causes serious eye damage.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Flammable liquid and vapour.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Causes skin irritation.
Suspected of causing cancer.
Harmful if inhaled.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Wash thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe spray.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective clothing/ eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/ physician.
IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
Do NOT induce vomiting.
Rinse mouth.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Specific treatment (see supplemental first aid instructions on this label).
If skin irritation occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
IF exposed or concerned: Get medical advice/ attention.
Get medical advice/ attention if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

No other hazards not otherwise classified.
No physical hazards not otherwise classified.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Deltamethrin	52918-63-5	5.0
Xylene	1330-20-7	73.52
Ethylbenzene	100-41-4	12.98

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	Central nervous system depression, Headache, Dizziness, Nausea, Vomiting
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Indication of any immediate medical attention and special treatment needed

Risks	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

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SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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 firefighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information 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.

Flash point 28.1 °C

Auto-ignition temperature No data available

Lower explosion limit No data available

Upper explosion limit No data available

Explosivity Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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 and materials for containment and cleaning up

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. Dike area to prevent runoff. Wash spill area with water containing a strong detergent.

Additional advice If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

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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.

Advice on protection against fire and explosion Keep away from heat and sources of ignition.

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. Smoking, eating and drinking should be prohibited in the application area.
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.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers 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.
Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.02 mg/m ³ (TWA)		OES BCS*
Xylene	1330-20-7	434 mg/m ³ /100 ppm (TWA)	07 2009	CAD AB OEL
Xylene	1330-20-7	651 mg/m ³ /150 ppm (STEL)	07 2009	CAD AB OEL
Xylene	1330-20-7	100 ppm (TWA)	09 2011	CAD BC OEL
Xylene	1330-20-7	150 ppm (STEL)	09 2011	CAD BC OEL
Xylene	1330-20-7	100 ppm	03 2011	CAD MB

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		(TWA)		OEL
Xylene	1330-20-7	150 ppm (STEL)	03 2011	CAD MB OEL
Xylene	1330-20-7	100 ppm (TWA)	11 2010	CAD ON OEL
Xylene	1330-20-7	150 ppm (STEL)	11 2010	CAD ON OEL
Xylene	1330-20-7	100 ppm (8 HR ACL)	05 2009	CAD SK OEL
Xylene	1330-20-7	150 ppm (15 MIN ACL)	05 2009	CAD SK OEL
Xylene	1330-20-7	434 mg/m ³ /100 ppm (TWA)	11 2011	OEL (QUE)
Xylene	1330-20-7	651 mg/m ³ /150 ppm (STEL)	11 2011	OEL (QUE)
Xylene	1330-20-7	100 ppm (TLV)		OES BCS*
ethylbenzene	100-41-4	543 mg/m ³ /125 ppm (STEL)	07 2009	CAD AB OEL
ethylbenzene	100-41-4	434 mg/m ³ /100 ppm (TWA)	07 2009	CAD AB OEL
ethylbenzene	100-41-4	20 ppm (TWA)	09 2011	CAD BC OEL
ethylbenzene	100-41-4	20 ppm (TWA)	03 2011	CAD MB OEL
ethylbenzene	100-41-4	20 ppm (TWA)	06 2015	CAD ON OEL
ethylbenzene	100-41-4	100 ppm (8 HR ACL)	05 2009	CAD SK OEL
ethylbenzene	100-41-4	125 ppm (15 MIN ACL)	05 2009	CAD SK OEL
ethylbenzene	100-41-4	434 mg/m ³ /100 ppm (TWA)	11 2011	OEL (QUE)
ethylbenzene	100-41-4	543 mg/m ³ /125 ppm (STEL)	11 2011	OEL (QUE)

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*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

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

Respiratory protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
Hand protection	Chemical resistant nitrile rubber gloves
Eye protection	Chemical resistant goggles must be worn.
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	colourless to light yellow
Physical State	Liquid
Odor	aromatic
Odour Threshold	No data available
pH	4.0 - 5.5 at 5 % (23 °C) (deionized water) 4.0 - 6.5 at 5 % (23 °C) (Tap water)
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
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

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Flash point	28.1 °C
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid	freezing Heat, flames and sparks.
Incompatible materials	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

Exposure routes	Eye contact, Skin contact, Inhalation, Ingestion
Immediate Effects	
Eye	May cause severe eye irritation.
Skin	Fatal if absorbed through the skin. Causes skin irritation.
Ingestion	Fatal if swallowed.
Inhalation	Fatal if inhaled. May cause upper respiratory tract irritation.
Information on toxicological effects	
Acute oral toxicity	ATE (Mix) 1,100 mg/kg Acute toxicity estimate
Acute inhalation toxicity	ATE (Mix) 2.54 mg/l Acute toxicity estimate
Acute dermal toxicity	ATE (Mix) 3,872 mg/kg
Skin irritation	Irritating to skin. (Rabbit)
Eye irritation	Severe eye irritation. (Rabbit)

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Sensitisation Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity – repeated exposure

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. Xylene did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

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

Assessment carcinogenicity

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

ACGIH

Xylene	1330-20-7	Group A4
Ethylbenzene	100-41-4	Group A3

NTP

None.

IARC

Deltamethrin	52918-63-5	Overall evaluation: 3
Xylene	1330-20-7	Overall evaluation: 3
Ethylbenzene	100-41-4	Overall evaluation: 2B

OSHA

None.

Assessment toxicity to reproduction

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats. Xylene did not cause reproductive toxicity in a two-generation study in rats.

Assessment 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. Xylene caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Xylene are related to maternal toxicity.

Further information

Acute toxicity studies have not been performed on this product as formulated. No data is available on the product itself. The information is derived from the properties of the individual components. The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

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Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.15 µg/l Exposure time: 96 h The value mentioned relates to the active ingredient deltamethrin.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 0.0131 µg/l Exposure time: 48 h The value mentioned relates to the active ingredient deltamethrin.
Toxicity to aquatic plants	EC50 (Algae) > 9.1 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient deltamethrin.
Biodegradability	Deltamethrin: Not rapidly biodegradable Xylene: rapidly biodegradable
Koc	Deltamethrin: Koc: 10240000 Xylene: Koc: 2.2
Bioaccumulation	Deltamethrin: Bioconcentration factor (BCF) 1,400 Does not bioaccumulate. Xylene: Bioconcentration factor (BCF) 10 Does not bioaccumulate.
Mobility in soil	Deltamethrin: Immobile in soil Xylene: Highly mobile in soils
Additional ecological information	No other effects to be mentioned.
Environmental precautions	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.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	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.
Contaminated packaging	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.

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SECTION 14: TRANSPORT INFORMATION

TDG

UN number	2903
Labels	6.1 (3)
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (DELTAMETHRIN, XYLENE)

49CFR

UN number	2903
Class	6.1 (3)
Packaging group	III
Proper shipping name	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	YES
Proper shipping name	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (DELTAMETHRIN, XYLENE SOLUTION)

IATA

UN number	2903
Class	6.1 (3)
Packaging group	III
Environm. Hazardous Mark	NO
Proper shipping name	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.

Further Information	In accordance with TDG regulations 3.6(3) and 4.22 this product does not require marine pollutant safety marks or shipping documentation reference when transported on land by road or rail.
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SECTION 15: REGULATORY INFORMATION

PCP Registration No.	17734 / 22478
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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

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Xylene	1330-20-7	1.0%
Ethylbenzene	100-41-4	0.1%

US States Regulatory Reporting

CA Prop65

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

Ethylbenzene	100-41-4
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US State Right-To-Know Ingredients

Xylene	1330-20-7	CA, CT, IL, MI, MN, NJ, RI
Ethylbenzene	100-41-4	CA, CT, IL, MN, NJ, RI

Canadian Regulations

Canadian Domestic Substance List

Xylene	1330-20-7
Ethylbenzene	100-41-4

Environmental

CERCLA

Xylene	1330-20-7
Ethylbenzene	100-41-4

Clean Water Section 307 Priority Pollutants

Ethylbenzene	100-41-4
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Safe Drinking Water Act Maximum Contaminant Levels

Xylene	1330-20-7
Ethylbenzene	100-41-4

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified

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NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

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

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

Health - 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: Revised according to the current Canadian WHMIS standard (WHMIS 2015).

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

Revision Date: 10/27/2017

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