

ENVIDOR® 240 SC MITICIDE

Version 2.0 / CDN Revision Date: 10/26/2018 102000011424 Print Date: 10/26/2018

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

Product identifier

Trade name ENVIDOR® 240 SC MITICIDE

Product code (UVP) 06328725

SDS Number 102000011424

PCP Registration No. 28051

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

Use Insecticide, Miticide

Restrictions on useSee 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

Skin sensitisation, Carcinogenicity: Category 1B

Reproductive toxicity, Specific target organ toxicity - repeated exposure: Category 2

Labelling in accordance with Part 3 of the Hazardous Products Regulations





Signal word: Danger

Hazard statements

May cause an allergic skin reaction.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.



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Precautionary statements

Do not breathe gas/ mist/ vapours/ spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF ON SKIN: Wash with plenty of water/ soap.

If skin irritation or rash occurs: Get medical advice/ attention.

Specific measures (see supplemental first aid instructions on this label).

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/ attention.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified. No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component NameCAS-No.Concentration % by weightSpirodiclofen148477-71-822.3

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 To date no symptoms are known.



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Indication of any immediate medical attention and special treatment needed

Treatment There is no specific antidote. Appropriate supportive and symptomatic

treatment as indicated by the patient's condition is recommended.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Water, Dry chemical, Foam Unsuitable High volume water jet

Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Hydrogen chloride

(HCI), Carbon monoxide (CO)

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. 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 relevant; aqueous solution

Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNot applicable

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 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 Use personal protective equipment. 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 Use only in area provided with appropriate exhaust ventilation. Handle

and open container in a manner as to prevent spillage.

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. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Spirodiclofen	148477-71-8	0.39 mg/m3 (SK-SEN)		OES BCS*

^{*}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 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



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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 white to beige
Physical State suspension
Odor slight

Odour Threshold No data available

pH 4.0 - 6.0 (100 %) (23 °C)

Vapor PressureNo data availableVapor Density (Air = 1)No data availableDensity1.09 g/cm³ (20 °C)Evaporation rateNo data availableBoiling PointNo data availableMelting / Freezing Point-17.8 °C / 0.04- °F

Water solubility miscible

Minimum Ignition Energy Not applicable

Decomposition Not applicable temperature

Partition coefficient: n-

octanol/water

No data available

Viscosity 250 - 350 mPa.s (20 °C) Velocity gradient 20 /s

80 - 120 mPa.s (20 °C) Velocity gradient 100 /s

700 - 1,000 cps (25 °C)

Flash point Not relevant; aqueous solution

Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNot applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition Not applicable

Chemical stability Stable under normal conditions.



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Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Extremes of temperature and direct sunlight.

No data available Incompatible materials

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Skin contact, Ingestion, Eye contact

Immediate Effects

Skin Harmful if absorbed through skin. May cause sensitisation by skin

contact.

Harmful if swallowed. Ingestion

Information on toxicological effects

Acute oral toxicity LD50 (male/female combined Rat) > 2,000 mg/kg

LC50 (male/female combined Rat) > 3.146 mg/l Acute inhalation toxicity

Exposure time: 4 h

Determined in the form of liquid aerosol.

Highest attainable concentration.

Acute dermal toxicity LD50 (male/female combined Rat) > 4,000 mg/kg

Skin corrosion/irritation No skin irritation (Rabbit) Serious eye damage/eye No eye irritation (Rabbit)

irritation

Respiratory or skin Skin: Sensitising (Guinea pig)

OECD Test Guideline 406, Magnusson & Kligman test sensitisation

Assessment STOT Specific target organ toxicity - repeated exposure

Spirodiclofen: May cause damage to organs through prolonged or repeated exposure.

Assessment mutagenicity

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

Assessment carcinogenicity

Spirodiclofen caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver.

Spirodiclofen caused at high dose levels an increased incidence of tumours in rats in the following organ(s): uterus. Testes. The tumours seen with Spirodiclofen were caused through a non-genotoxic mechanism, which is not relevant at low doses. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.

Spirodiclofen: May cause cancer.



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ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Spirodiclofen: is suspected to affect male reproductive function.

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

Assessment developmental toxicity

Spirodiclofen did not cause developmental toxicity in rats and rabbits.

Further information

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) > 0.035 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient spirodiclofen. No acute toxicity was observed at its limit of water solubility.

Chronic toxicity to fish Oncorhynchus mykiss (rainbow trout)

Early-life Stage NOEC: 0.00195 mg/l Exposure time: 97 d

The value mentioned relates to the active ingredient spirodiclofen.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 0.045 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient spirodiclofen. No acute toxicity was observed at its limit of water solubility.

Toxicity to aquatic plants IC50 (Raphidocelis subcapitata (freshwater green alga)) > 0.06 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient spirodiclofen. No acute toxicity was observed at its limit of water solubility.

Biodegradability Spirodiclofen:

Not rapidly biodegradable



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Koc Spirodiclofen: Koc: 31097

Bioaccumulation Spirodiclofen: Bioconcentration factor (BCF) 491

Does not bioaccumulate.

Mobility in soil Spirodiclofen: Immobile in soil

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 when weather conditions favor runoff or drift.

Do not apply this product or allow it to drift to blooming crops or weeds if

bees are visiting the treatment area.

Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Follow container label instructions for disposal of wastes generated

during use in compliance with the product label.

Dispose in accordance with all local, state/provincial and federal

regulations.

Contaminated packaging Triple rinse containers.

Puncture container to avoid re-use.

Dispose of empty container in a sanitary landfill or by incineration, or, if

allowed by State/Provincial and local authorities, by burning.

If burned, stay out of smoke.

SECTION 14: TRANSPORT INFORMATION

TDG

UN number 3082
Labels 9
Packaging group III

Marine pollutant Marine pollutant

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(SPIRODICLOFEN)

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(SPIRODICLOFEN SOLUTION)



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IATA

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(SPIRODICLOFEN 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 Exempt from regulation when transported by road or rail, in

accordance with TDG Regulations 1.45.1.

This exemption provides that this product does not require dangerous goods shipping documentation or safety marks

when transported on land by road or rail.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN

POISON

SECTION 15: REGULATORY INFORMATION

PCP Registration No. 28051

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

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



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WHO World health organisation

NFPA 704 (National Fire Protection Association):

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

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

Health - 1 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 Canadian WHMIS standard (WHMIS 2015).

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

Revision Date: 10/26/2018

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