

Safety Data Sheet FORBID® 240 SC INSECTICIDE/MITICIDE

SDS Number: 102000008393 SDS Version 1.3 Revision Date: 01/27/2015 Print Date: 01/27/2015

#### **SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

Product name FORBID® 240 SC INSECTICIDE/MITICIDE

 SDS Number
 102000008393

 Product code (UVP)
 06274919

 PCP Registration No.
 28590

Product Use Insecticide, Miticide

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)

For Product Information call: 1-888-283-6847

## **SECTION 2. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! May be harmful by inhalation, ingestion, skin absorption. Causes eye

irritation. Avoid contact with skin, eyes and clothing. Do not breathe vapour.

Physical State suspension

**Odor** musty earthy

**Appearance** white to light grey

**Exposure routes** Ingestion, Eye contact, Skin Absorption, Inhalation

**Immediate Effects** 

**Eye** Causes eye irritation. Avoid contact with eyes.

**Skin** May be harmful if absorbed through skin. Avoid contact with skin and clothing.

**Ingestion** May be harmful if swallowed. Do not take internally.

**Inhalation** May be harmful if inhaled. Do not breathe vapours or spray mist.

**Chronic or Delayed** 

Long-Term

This product or its components may have target organ effects. This product or its

components may have long term (chronic) health effects.



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**Potential Environmental Effect** 

Toxic to fish and aquatic invertebrates.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Average % by Weight Hazardous Component Name** CAS-No. Spiromesifen 283594-90-1 23.10 Glycerine 56-81-5 10.00

#### **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.

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Eye

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

Signs and **Symptoms** 

To date no symptoms are known.

**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**

> 93.4 °C / 200.12 °F Flash point

Autoignition temperature 405 °C / 761 °F



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**Lower Flammability** 

Limit

no data available

Upper Flammability Limit no data available

**Explosiveness** not applicable

Fire and Explosion

**Hazards** 

Dangerous gases are evolved in the event of a fire.

Suitable extinguishing

media

Water spray, Foam, Dry powder, Carbon dioxide (CO2), Sand

Unsuitable extinguishing

media

None known.

Fire Fighting Instructions

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.

Firefighters should wear NIOSH approved self-contained breathing apparatus

and full protective clothing.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled

product or contaminated surfaces.

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. Do not allow to enter soil, waterways or

waste water canal.

## **SECTION 7. HANDLING AND STORAGE**

**Handling procedures** Handle and open container in a manner as to prevent spillage. Maintain

exposure levels below the exposure limit through the use of general and local

exhaust ventilation.

**Storing Procedures** 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.



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Protect from freezing.

Work/Hygienic Procedures

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.

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

General Protection 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 Safety glasses with side-shields

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**

Spiromesifen	283594-90-1	OES BCS*	TWA	0.92 mg/m3
Glycerine	56-81-5	CAD AB OEL	TWA	10 mg/m3
•		CAD BC OEL	TWA	3 mg/m3
		CAD BC OEL	TWA	10 mg/m3
		CAD ON OEL	TWAEV	10 mg/m3
		CAD SK OEL	8 HR ACL	10 mg/m3
		CAD SK OEL	15 MIN ACL	20 mg/m3
		OEL (QUE)	TWA	10 mg/m3

<sup>\*</sup>OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** white to light grey

Physical State suspension

**Odor** musty earthy



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**pH** 3.5 - 4.5 (100 %) at 23 °C

Vapor Pressure no data available

Vapor Density (Air = 1) no data available

**Density** 1.05 g/cm<sup>3</sup> at 20 °C

**Evapouration rate** no data available

**Boiling Point** no data available

Melting / Freezing Point -18 °C / 0.4- °F

Water solubility dispersible

Minimum Ignition Energy not applicable

Decomposition temperature

not applicable

Partition coefficient: n-

octanol/water

**Hazardous** 

not applicable

**Viscosity** 600 - 1,100 cps

## **SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid freezing

**Incompatibility** no data available

**Decomposition Products** 

**Hazardous reactions** No dangerous reaction known under conditions of normal use.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient, spiromesifen technical.

Acute oral toxicity rat: LD50: > 2,000 mg/kg

Acute dermal toxicity rat: LD50: > 4,000 mg/kg

No decomposition products expected under normal conditions of use.



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Acute inhalation toxicity

rat: LC50: > 2.8 mg/l Exposure time: 4 h

Determined in the form of liquid aerosol. Highest attainable concentration.

No deaths

rat: LC50: > 11.2 mg/l Exposure time: 1 h

Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50. Highest attainable concentration.

No deaths

**Skin irritation** rabbit: No skin irritation

**Eye irritation** rabbit: No eye irritation

**Sensitisation** guinea pig: Non-sensitizing.

Chronic toxicity Spiromesifen did not cause specific target organ toxicity in experimental animal

studies

#### **Assessment Carcinogenicity**

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

**ACGIH** 

None.

NTP

None.

IARC

None. OSHA

None.

**Reproductive toxicity** Spiromesifen 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 Spiromesifen is related to parental toxicity.

**Developmental Toxicity** Spiromesifen caused developmental toxicity only at dose levels toxic to the

dams. The developmental effects seen with Spiromesifen are related to maternal

toxicity.

**Mutagenicity** Spiromesifen was not mutagenic or genotoxic in a battery of in vitro and in vivo

tests.

## **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to fish** Oncorhynchus mykiss (rainbow trout)

LC50: 0.0155 mg/l



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Exposure time: 96 h

The value mentioned relates to the active ingredient spiromesifen.

Toxicity to aquatic plants Pseudokirchneriella subcapitata

Growth rate IC50: > 0.094 mg/l Exposure time: 72 h

The value mentioned relates to the active ingredient spiromesifen.

**Acute Toxicity to Aquatic** 

Invertebrates

Daphnia magna (Water flea) EC50: > 0.0923 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient spiromesifen.

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.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

General Disposal Guidance

Dispose in accordance with all local, state/provincial and federal regulations. 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. If burned, stay out of smoke.

### **SECTION 14. TRANSPORT INFORMATION**

**TDG** Not dangerous goods / not hazardous material

**49CFR** Not dangerous goods / not hazardous material

**IMDG** 

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(SPIROMESIFEN SOLUTION)

**IATA** 

UN number 3082 Class 9



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Packaging group III Environm. Hazardous Mark YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(SPIROMESIFEN 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.

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

### **SECTION 15. REGULATORY INFORMATION**

PCP Registration No. 28590

**US Federal Regulations** 

**TSCA list** 

Glycerine 56-81-5

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

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

**US State Right-To-Know Ingredients** 

Glycerine 56-81-5 MN

**Canadian Regulations** 

**Canadian Domestic Substance List** 

Glycerine 56-81-5

**Environmental** 

**CERCLA** 

None.

**Clean Water Section 307 Priority Pollutants** 

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

**European Inventory of Existing Commercial Substances (EINECS)** 

Glycerine 56-81-5



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## **SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

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

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

Health - 1 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.

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