

# Material Safety Data Sheet OBERON® 2 SC INSECTICIDE/MITICIDE

MSDS Number: 102000008393 MSDS Version 2.2 Revision Date: 06/11/2008

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

Product Name OBERON® 2 SC INSECTICIDE/MITICIDE

**MSDS Number** 102000008393

**EPA Registration No.** 264-719

Bayer CropScience 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

USA

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

For Product Information call: 1-866-99BAYER (1-866-992-2937)

## **SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component NameCAS-No.Average % by WeightSpiromesifen283594-90-123.10Trade Secret Ingredient(s)10.00

### **SECTION 3. HAZARDS IDENTIFICATION**

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

Emergency Overview Caution! Harmful if swallowed or absorbed through skin. Avoid contact with skin,

eyes and clothing.

Physical State viscous liquid suspension

Odor musty earthy

**Appearance** white to light grey

Routes of Exposure Ingestion, Eye contact, Skin Absorption

**Immediate Effects** 

**Eye** Avoid contact with eyes.

**Skin** Harmful if absorbed through skin. Avoid contact with skin and clothing.

**Ingestion** Harmful if swallowed. Do not take internally.

**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 4. FIRST AID MEASURES**

When possible, have the product container or label with you when calling a General

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** 

**Treatment** There is no specific antidote. Appropriate supportive and symptomatic treatment

as indicated by the patient's condition is recommended.

## **SECTION 5. FIRE FIGHTING MEASURES**

Flash point > 93.4 °C / 200.1 °F

Suitable Extinguishing

Media

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

Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks 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**



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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). 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 pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Protect from freezing.

Work/Hygienic Procedures

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly with soap and water after handling and 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.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. 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.

Follow all label instructions. Train employees in safe use of the product.

**Eye/Face Protection** Safety glasses with side-shields

Hand Protection Chemical resistant nitrile rubber gloves



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**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** 

This product contains material which are Trade Secret and may have

Occupational Exposure Limits. If more information is required, call the product

information number listed in Section 1.

**OES BCS\*** Spiromesifen 283594-90-1 0.92 mg/m3

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

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

**Appearance** white to light grey

viscous liquid suspension **Physical State** 

Odor musty earthy

Ha 3.5 - 4.5 (100 %) (undiluted)

1.03 g/cm3 at 20 °C **Density** 

**Melting / Freezing Point** -18 °C / -0 °F

Partition coefficient: n-

octanol/water

no data available

**Viscosity** 600 - 1,100 mPa.s

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

**Conditions to Avoid** Freezing

**Hazardous** Thermal decomposition **Decomposition Products** Carbon monoxide

**Hazardous Reactions** Stable under normal conditions.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been performed on the formulated product. The non-acute information



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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

**Acute Inhalation Toxicity** rat: LC50: > 2.8 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

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

Determined in the form of liquid aerosol.

Extrapolated from the 4 hr LC50.

**Skin Irritation** rabbit: No skin irritation.

**Eye Irritation** rabbit: No eye irritation.

Sensitization guinea pig: Non-sensitizing.

**Chronic Toxicity** Spiromesifen caused effects in the liver, uterus, adrenal and/or thyroid

(secondary effect) in chronic studies in rats and dogs.

#### Assessment Carcinogenicity

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

**ACGIH** 

None.

**NTP** 

None.

**IARC** 

None.

**OSHA** 

None.

Reproductive &

REPRODUCTION: Spiromesifen was not a primary reproductive toxicant in a **Developmental Toxicity** two-generation study in rats. Reproductive effects were observed only at doses

producing systemic toxicity.

DEVELOPMENTAL TOXICITY: Spiromesifen was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in rats but

were considered secondary to maternal toxicity.

**Neurotoxicity** Spiromesifen caused transient neurobehavioral effects without correlating

neuropathological changes in acute and subchronic neurotoxicity screening

studies in rats.

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

tests.



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## **SECTION 12. ECOLOGICAL INFORMATION**

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

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal** 

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**

DOT CLASSIFICATION:

Not regulated for Domestic Surface Transportation

IMDG CLASSIFICATION:

Environmentally Hazardous Substances, Liquid, N.O.S.(Spiromesifen)// 9 // UN3082 //PGIII // Marine Pollutant

FREIGHT CLASSIFICATION:

Insecticide or Fungicides, N.O.I.; other than poison

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

**EPA Registration No.** 264-719

**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 None.

**US States Regulatory Reporting** 



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## 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** 

None

Safe Drinking Water Act Maximum Contaminant Levels

None.

## **SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 1 Others - none

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

Reason to Revise: Updated Section 14: Transport Information.

Revision Date: 06/11/2008

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