



Partners with solutions

# MATERIAL SAFETY DATA SHEET

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**TRANSPORTATION EMERGENCY**  
**CHEMTREC:** .....(800)-424-9300

**EMERGENCY AND PRODUCT INFORMATION**  
**OHP, Inc.:** .....(800)-356-4647

## JUDO™ Miticide/Insecticide

**EPA Registration Number: 432-1280-59807**

### I. CHEMICAL PRODUCT INFORMATION

**Product Name** ..... JUDO™ MITICIDE / INSECT-ICIDE  
**EPA Registration No.** ..... 432-1280-59807

**Product Use** ..... For control of mites and whiteflies on ornamental plants, flowers and foliage plants.

### II. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Spiromesifen	283594-90-1	45.20

### III. HAZARDS IDENTIFICATION

**NOTE:** Please refer to Section XI. for detailed toxicological information.

#### Emergency Overview

Caution! Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

**Physical State** ..... liquid  
**Odor** ..... musty earthy  
**Appearance** ..... white  
**Routes of Exposure** ..... Ingestion, Inhalation, Eye contact, Skin Absorption

#### **Immediate Effects**

**Eye** ..... Avoid contact with eyes. May be minimally irritating following prolonged direct contact.  
**Skin** ..... Harmful if absorbed through skin. Avoid contact with skin and clothing. May cause slight irritation.  
**Ingestion** ..... Harmful if swallowed. Do not take internally.  
**Inhalation** ..... Harmful if inhaled. Avoid breathing spray mist. Mists may cause respiratory tract irritation.

### IV. FIRST AID MEASURES

**General** ..... 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 poison control center or doctor for treatment advice.  
**Skin** ..... Take off all contaminated clothing immediately. Rinse immediately with plenty of

water for at least 15 minutes. Call a poison control center or doctor for treatment advice.

**Ingestion** ..... Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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.

**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 poison control center or doctor for further treatment advice.

#### **Notes to Physician**

**Treatment** ..... There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

### V. FIRE FIGHTING MEASURES

**Flash Point** ..... Not combustible.  
**Suitable Extinguishing Media** ..... water spray, carbon dioxide (CO2), dry chemical  
**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. Equipment or materials involved in pesticide fires may become contaminated.  
Wear self-contained breathing apparatus and protective suit.

### VI. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** ..... Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.  
**Methods for Cleaning Up** ..... Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.  
**Additional Advice** ..... Use personal protective equipment. Avoid breathing vapors and avoid skin contact. Do not allow material to enter streams, sewers, or other waterways.

### VII. HANDLING AND STORAGE

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

# MATERIAL SAFETY DATA SHEET

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**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.

**Work/Hygienic Procedures** . . . . .: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then 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. As soon as practical, wash thoroughly and change into clean clothing.

### VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General Protection** . . . . .: Follow all label instructions. Educate and 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 hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls** . . . . .: Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Eye/Face Protection** . . . . .: goggles

**Hand Protection** . . . . .: chemical resistant 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

Glycerine	56-81-5	ACGIH	TWA	10mg/m3
		Form of Exposure	Mist.	
		OSHA Z1	PEL	5 mg/m3
		Form of Exposure	Respirable fraction.	
		OSHA Z1	PEL	15 mg/m3
		Form of Exposure	Total dust.	
		OSHA Z1A	TWA	5 mg/m3
		Form of Exposure	Respirable fraction.	
		OSHA Z1A	TWA	10 mg/m3
		Form of Exposure	Total dust.	
		US CA OEL	TWA PEL	5 mg/m3
		Form of Exposure	Respirable fraction.	
		US CA OEL	TWA PEL	10 mg/m3
		Form of Exposure	Total dust.	

### IX. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** . . . . .: white

**Physical State** . . . . .: liquid

**Odor** . . . . .: musty earthy

**pH** . . . . .: 3.5 - 5.5

**Density** . . . . .: ca. 1.09 g/cm<sup>3</sup> at 20 °C

**Viscosity** . . . . .: 884 mPa.s at 25 °C

### X. STABILITY AND REACTIVITY

**Chemical Stability** . . . . .: Stable under normal conditions.

### XI. TOXICOLOGICAL INFORMATION

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

**Acute Oral Toxicity** male/female rat: LD50: > 2,000 mg/kg

**Acute Dermal Toxicity** male/female rat: LD50: > 2,000 mg/kg

**Acute Inhalation Toxicity** male/female rat: LC50: 1.8 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol. (actual)  
Maximum attainable concentration.  
No deaths

male/female rat: LC50: > 7.2 mg/l  
Exposure time: 1 h  
Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50. (actual)

**Skin Irritation** rabbit: slight irritation

**Eye Irritation** rabbit: Minimally irritating.

**Sensitization** guinea pig: Non-sensitizing

**Chronic Toxicity** The major organs affected from long-term exposure to spiromesifen in studies in rats and dogs included the liver, uterus, adrenal and/or thyroid (secondary effect).

#### Assessment Carcinogenicity

Spiromesifen is not carcinogenic based on oncogenicity studies in rats and mice.

#### ACGIH

None.

#### NTP

None.

#### IARC

None.

#### OSHA

None.

#### Reproductive & Developmental Toxicity

**REPRODUCTION:** Spiromesifen is not a primary reproductive toxicant based on two-generation reproduction studies in rats. Reproductive effects observed in high-dosed animals (e.g., reduced estrous cycling) were secondary to stark maternal toxicity.

**DEVELOPMENTAL TOXICITY:** Spiromesifen is not a primary developmental toxicant based on developmental toxicity studies in rats and rabbits. Developmental effects observed in rats at high doses were secondary to maternal toxicity.

#### Neurotoxicity

Spiromesifen was not neurotoxic in acute (oral gavage) and subchronic (diet) neurotoxicity screening studies in rats. Transient neurobehavioral effects were observed in these studies without correlating neuropathologic alterations.

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### Mutagenicity

Spiromesifen is not mutagenic or genotoxic based on in vitro and in vivo mutagenicity studies.

### XII. ECOLOGICAL INFORMATION

**Environmental Precautions** . . . . .: Apply this product only as specified on the label. This pesticide is toxic to fish and aquatic invertebrates. Avoid direct application or spray drift to water surfaces. 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.

### XIII. DISPOSAL CONSIDERATIONS

#### General Disposal Guidance

**Pesticide Disposal:** Pesticide wastes are toxic. 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. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

### XIV. TRANSPORT INFORMATION

#### TRANSPORTATION CLASSIFICATION:

Not regulated for all modes of Transportation

#### FREIGHT CLASSIFICATION:

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

### SECTION XV. REGULATORY INFORMATION

EPA Registration No. 432-1280-59807

#### 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

##### 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.

### XVI. OTHER INFORMATION

#### NFPA

Health	Flammability	Reactivity	Others
2	0	1	none

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

**Reason to Revise:** New Material Safety Data Sheet

**Revision Date:** 05/16/2005

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of OHP, Inc.



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