



MATERIAL SAFETY DATA SHEET

OHP, Inc.
 P.O. BOX 230
 MAINLAND, PA 19451
 800-659-6745

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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.

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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/cm³ 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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