

Revision Date: 02/07/2014 Print Date: 05/04/2015

## **JUDO®**

EPA Registration Number: 432-1280-59807

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Trade name. . . . . . . . . . . JUDO®

**EPA Registration No....**: 432-1280-59807

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

**Use** . . . . . . . : Insecticide, Miticide

Restrictions on use . . . . . : See product label for

restrictions.

Company Information . . . : OHP, Inc.

PO Box 51230 Mainland, PA 19451 (800) 659-6745

### TRANSPORTATION EMERGENCY

(24 hours a day) call . . . . : Chemtrec: 1-800-424-9300

MEDICAL EMERGENCY (24 hours a day) and Product

**Information call** . . . . . . . : 1-800-356-4647

SDS Information

or Request . . . . . . . . : ohp.com

## 2. HAZARDS IDENTIFICATION

# Classification in accordance with regulation HCS 29CFR §1910.1200

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards . . . . . . . No particular hazards

known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Spiromesifen	283594-90-1	45.20
Glycerine	56-81-5	10.00

### 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 unattendad.

## Most important symptoms and effects, both acute and delayed

Symptoms . . . . . . . : To date no symptoms are known.

# Indication of any Immediate medical attention and special treatment needed

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

## 5. FIREFIGHTING MEASURES

## Extinguishing media

Suitable :: Water spray, Carbon dioxide (C02), Dry chemical

**Unsuitable** . . . . . . . . : None known.

## Special hazards arising from the

**substance or mixture** . . . . : Dangerous gases are evolved in the event of a fire.

FIREFIGHTING MEASURES continued next page



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#### FIREFIGHTING MEASURES continued

## Advice for firefighters

## Special protective equipment

for fire-fighters . . . . . : Wear self-contained breathing apparatus and protective suit.

**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.

## 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. Ensure adequate ventilation.

## 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. Do not allow to enter soil, waterways or waste water canal.

#### 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.

### 7. HANDLING AND STORAGE

## Precautions for safe handling

**Advice on safe handling** . . : 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.

**Hygiene measures**....: Wash hands before breaks and immediately after handling the product.

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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Spiromesifen	283594-901	0.92 mg/m3 (TWA)		OES BCS*
Glycerine (Total dust.)	56-81-5	15 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust.)	56-81-5	10 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust and mist.)	56-81-5	10 mg/m3 (TWA)	06 2008	TN OEL
Glycerine (Respirable fraction and dust or fume.)	56-81-5	5 mg/m3 (TWA)	06 2008	TN OEL

EXPOSURE CONTROLS/PERSONAL PROTECTION continued next page



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### **EXPOSURE CONTROLS/PERSONAL PROTECTION** continued

Components	CAS-No.	Control parameters	Update	Basis
Glycerine (Particulate.)	56-81-5	50 ug/m3 (ST ESL)	02 2013	TX ESL
Glycerine (Particulate.)	56-81-5	5ug/m3 (AN ESL)	02 2013	TX ESL
Glycerine (Vapor.)	56-81-5	100 ug/m3 (AN ESL)	02 2013	TX ESL
Glycerine (Vapor.)	56-81-5	1000 ug/m3 (ST ESL)	02 2013	TX ESL

<sup>\*</sup> OES BCS. Internal Bayer CropSc1ence "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** . . . . . . . . . Goggles

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 no such instructions for washables, use detergent and warm/

Keep and wash PPE separately from other laundry.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance . . . . . . . . : white to light beige

Physical State . . . . . . . : Liquid

Odor . . . . . . . . . . : musty earthy Odour Threshold . . . . . . . : no data available Vapor Pressure . . . . . . . : no data available

Vapor Density (Air = 1) . . . . : no data available

**Density** . . . . . . . . . . . . . . . . 1.08 g/cm3 at 20 "C

**Evapouration rate** . . . . . . : no data available Boiling Point . . . . . . . : no data available Melting I Freezing Point . . . : no data available

Water solubility . . . . . . : miscible

Minimum Ignition Energy . . : not applicable

Decomposition

temperature . . . . . . . : not applicable

Partition coefficient:

**n-octanol/water** . . . . . . . : no data available Flash point . . . . . . . . . . Not combustible.

**Autoignition temperature** . . : no data available Lower explosion limit . . . . : no data available **Upper explosion limit** . . . . : no data available

Explosivity . . . . . . . . : not applicable

## 10. STABILITY AND REACTIVITY

## Reactivity

Thermal decomposition . . : not applicable

Chemical stability . . . . . : Stable under normal

conditions.

### Possibility of hazardous

**reactions**..... No dangerous reaction

known under conditions of normal use.

Conditions to avoid . . . . . : freezing

**Incompatible materials** . . . : no data available

Hazardous

**decomposition** . . . . . . . . No decomposition

products expected under normal conditions of prod-

ucts use.

### 11. TOXICOLOGICAL INFORMATION

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

**Immediate Effects** 

**Eye** . . . . . . . . . . . . . . . . May be minimally irritating following prolonged direct contact.

TOXICOLOGICAL INFORMATION continued next page



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<b>OLOGICAL INFORMATION</b> cont	inued	IARC	: None.
Skin		<b>OSHA</b> None.	
through skin. May cause slight irritation.		Assessment toxicity to reproduction Spiromesifen caused reproduction toxicity in a two-generation study	
Ingestion       : Harmful if swallowed.         Inhalation       : Harmful if inhaled.         Mists may cause respiratory tract irritation.			
		rats only at dose levels also toxic to the parent imals. The reproduction toxicity seen with Spiror sifen is related to parental toxicity.	
Information on toxicolog	jical effects	•	,
Acute oral toxicity	LD50 (male/female combined rat) > 2,000 mg/kg	Assessment developmental toxicity Spiromesifen caused developmental toxicity only at dose levels toxic the dams. The developmental effects seen with some sifen are related to maternal toxicity.	
Acute inhalation toxicit	LC50 (male/female combined rat) 1.8 mg/l		
	Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths		: Only acute toxicity n performed on the formula
	LC50 (male/female combined rat)> 7.2 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.	12. ECOLOGICAL INFOR	RMATION  LC50 (Rainbow trout (Oncorhynchus mykiss))
Acute dermal toxicity	LD50 (male/female combined rat) > 2,000 mg/kg		0.0155 mg/l Exposure time: 96 h The value mentioned rela
Skin irritation	: Slight irritation (rabbit)		to the active ingredient
Eye irritation	: Minimally irritating.		spiromesifen.
•	(rabbit)	Toxicity to aquatic	
	: Non-sensitizing. (guinea pig)	invertebrates	EC50 (Water flea (Daphnia magna)) > 0.09 mg/l
Assessment repeated dose toxicity	: Spiromesifen did not cause specific target organ toxicity in experimental animal studies.	<b>-</b>	Exposure time: 48 h The value mentioned relatory to the active ingredient spiromesifen.
Assessment		Toxicity to aquatic plants	IC50 (Pseudokirchneriella
Mutagenicity	: Spiromesifen was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.	aquatic piants	subcapitata) > 0.094 mg Growth rate; Exposure tin 72 h The value mentioned rela to the active ingredient spiromesifen.
Carolinoge illuly	carcinogenic in lifetime feeding studies in rats	Biodegradability	Spiromesifen: not rapidly degradable
	and mice.	Koc	Spiromesifen: Koc:30900
ACGIH	: None.	ECOLOG	ICAL INFORMATION continued next
NTD	· None		



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**ECOLOGICAL INFORMATION** continued

**Bioaccumulation** Spiromesifen: Bioconcentra-

tion factor (BCF) 545 Does not bioaccumulate.

Mobility in soil Spiromesifen: Immobile in

soil

Environmental precautions

Apply this product as speci-

fied on the label.

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 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.

## 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

**Product** ...... 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.

**Contaminated packaging**. .: Do not re-use empty containers.

Triple rinse containers.

Empty residue into application equipment. 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.

**RCRA Information** . . . . . . : Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA

classification may apply.

### 14. TRANSPORT INFORMATION

49CFR ..... Not dangerous goods I

not hazardous material

**IMDG** 

 UN number
 : 3082

 Class
 : 9

 Packaging group
 : III

 Marine pollutan
 : YES

**Proper shipping name**....: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(SPIROMESIFEN SOLUTION)

**IATA** 

 UN number
 : 3082

 Class
 : 9

 Packaging group
 : III

Environmental

Hazardous Mark . . . . . . YES

**Proper shipping name**....: 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



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### 15. REGULATORY INFORMATION

**EPA Registration No.** . . . . : 432-1280-59807

**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 harm.

**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 Sub-

stances (EINECS)

Glycerine 56-81-5

**EPA/FIFRA Information:** 

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word . . . . . . . : Caution!

**Hazard statements**. . . . . . : 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.

### **16. OTHER INFORMATION**

### NFPA 704 (National Fire Protection Association):

Health Flammability Instability Others 2 0 0 none

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

Physical
Health Flammability Hazard PPE
2 0 0

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

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

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This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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