

# MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

**KOFFEX**

Date of Preparation	09/08/2011
Date of Issue	19/08/2011
MSDS No	FORM_MSDS_R&D_033_00
Renewal Date/No	

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PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 1. MATERIAL/PREPARATION AND COMPANY/OWNER IDENTIFICATION:

### 1.1 Material/Preparation Identification:

**Product Name** : **KOFFEX**  
**Product Content** : Spiromesifen 240 g/L  
**Formulation Form** : SC (Suspension Concentrate)  
**Cas No** : 283594-90-1  
**EC No** : -  
**IRAC** : 23, Tetric Acid

### 1.2 Usage of the Material/Preparation:

Insecticide

### 1.3 Company Identification:

#### Manufacturing and License Holding Company:

**Company Name** : AGRI SCIENCES TARIM VE ILAC UR. SAN. TIC. LTD. STI.  
**Address** : Bekir Saydam Caddesi Pancar No: 31 Torbali / IZMIR  
**Telephone** : +90 0232 864 13 33  
**Fax** : +90 0232 864 16 79

### 1.4 Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33.

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## 2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Spiromesifen	240	283594-90-1	-	Xi, N	R43, R50, R53	Xi; R43, N; R50, R53
Glycerol	200	56-81-5	-	-	-	-
Others	Out of classification due to not including dangerous material					

- <sup>1</sup> R explanations are under section 16.

## 3. HAZARD IDENTIFICATION:



**Xi: Irritant**



**N: Harmful for environment**

R43 : May make sensitive in case of contact with skin.

R50 : Too toxic for aquatic organisms.

R53 : May cause long-term negative effects in aquatic environments.

## 4. FIRST AID MEASURES:

**Poison symptoms:** A clear poison symptom has not been determined on human.

**First Aid Measures:** In case of contact with skin, wash with plenty of water. Take off contaminated clothes. In case of contact with eyes, wash with plenty of water for at least 15 minutes. Call a doctor. Take the label and package with you.

**Antidote and Necessary Information:** There is no antidote. Treatment is applied as per the symptoms.

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### 5. FIRE FIGHTING MEASURES

**Personal Protective Equipment during fight:** Do not inhale the occurred gases during explosion and fire. Use air-independent respiratory mask during fire if possible.

**Dangers:** Consider the dangerous gases during the fire.

**Extinguishers:** Foam, carbon dioxide, extinguishing powder

**Other Details:** Take the product away from the fire point. Get cool the containers with water. If possible, use sand or earth after extinguishing water.

### 6. ACCIDENTAL RELEASE MEASURES:

**General Information:** Please use the personal protection equipment defined under Section 8.

**Personal Precautions:** Do not touch spilled product or contaminated surfaces. Do not eat, drink or smoke while handling spilled product.

**Clean-up Methods:** The poured material is collected with a liquid catcher material (for instance; sucking sand, sawdust, chemical binder). Place the product into tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations. The material should not be poured to sewage system or running water. If wastes contaminate the water, the authorized persons are informed.

**Additional Precautions:** Refer to Section 7 for safe handling instructions. Refer to Section 8 for personal protections equipment. Refer to Section 13 for disposal.

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## 7. HANDLING AND STORAGE

**Handling** : Please use the personal protection equipment specified under Section 8. Do not eat or drink while using. Prevent the contact with mouth, skin and eyes. Do not inhale. Wash your hands after using. Other security precautions are not required except of stated warnings during using the closed package. Use only in rooms, in which there is a local sucking device.

**Storage** : Keep in original package in cool, dry and well ventilated places. Keep away from food and animal feed items. Keep away from direct sunlight. Keep against freezing. Keep it in places that children cannot reach. Storage temperature -5- 40° C

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Precautions:** Ensure appropriate general or local ventilation to keep the product concentration under allowed limits.

### Personal Protection Equipment:

**Eye** : Use eye protection equipment compliant with EN 166.

**Skin** : Use protective clothing and appropriate gloves. Use 2 layers of clothing, if possible. Use CE marked Nitrile Rubber (min. 0.40 mm thick). Contaminated gloves should be washed. Any gloves that cannot be cleaned inside and outside should be disposed.

**Respiratory** : Use respiratory apparatuses compliant with EN 149:2001. Any respiratory protection apparatus should only be used for short term operations, as a part of risk minimization measures, e.g. in case of local ventilation. Comply with operation instructions and warnings of the manufacturer during use of respiratory protection apparatuses.

**Hygiene Measures:** Do not eat, drink or smoke while handling the product. Wash your hands each time before eating, drinking, smoking or going to the toilet.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	: Liquid
<b>Color</b>	: Beige - White
<b>Odor</b>	: Odorless
<b>Density</b>	: $1,03 \pm 0,05 \text{ g/cm}^3$ (20°C)
<b>pH</b>	: 4-7 (% 10 solution)

## 10. KARARLILIK VE TEPKİME

## 11. STABILITY AND REACTIVITY

<b>Conditions to be avoided</b>	: Extreme degrees and direct sun light
<b>Materials to be avoided</b>	: Keep away from strong acids and basis
<b>Dangerous reaction</b>	: There is no dangerous reaction in appropriate storage and usage. Toxic and irritant vapors may occur due to fire and thermal degradation. It is resistant in mentioned storage conditions. No dangerous polymerization products.

## 12. TOXICOLOGICAL INFORMATION

### **Spiromesifen Technical Material:**

Acute Oral LD<sub>50</sub> female and male rat >2500 mg/kg (OECD 423).  
Skin and Eye Acute Dermal LD<sub>50</sub> female and male rat >2000 mg/kg. Not irritant to skin and eyes on rabbits. It may cause sensitivity on skin. (Magnusson & Kligman assay).  
Respiratory LC<sub>50</sub> (4 hour) rat >4.87 mg/l (the highest accessible). NOEL NOAEL (90 days and 18 months) fare 3.2 and 3.3 mg/kg b.w. daily. ADI/RfD (EC) 0.03 mg/kg b.w. [2007]. Others: There is no evidence for genotoxic and mutagenic potential.

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### 13. ECOLOGICAL INFORMATION

#### **Spiromesifen Technical Material:**

Birds Acute LD<sub>50</sub> (bobwhite quail) >2000 mg/kg.

LC<sub>50</sub> (5 days) (bobwhite quail and mallard duck) >5000 mg/kg.

Fish Acute LC<sub>50</sub> (96 hours) rainbow trout 0,016, bluegill sunfish >0,034 mg/L

Daphnia EC<sub>50</sub> (48 hours) >0,092 mg/L

Algae *Pseudokirchneriella subcapitata*, E<sub>b</sub>C<sub>50</sub> and E<sub>r</sub>C<sub>50</sub> (96 h) >0.094 mg/l.

Ar1 LD<sub>50</sub> (oral) 790 µg/bee; (contact) >200 µg/bee

### 14. DISPOSAL INFORMATION

**Product** : Do not dispose it together with household wastes. Waste residue should not be spilled into wastewater canals. Any product wastes should be disposed of in compliance with Hazardous Wastes Control Regulations.

**Contaminated Materials** : Empty containers should not be used for other products. Completely emptied and rinsed containers should be disposed in compliance with regulations. Non-clearable containers should be disposed of as hazardous materials.

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## 15. TRANSPORTATION INFORMATION

### ADR/RID/ADNR

UN-No. : 3082

Hazard Mark: 9

Packing Group : III

Product type : UN 3082 ENVIRONMENTAL HARMFUL MATERIAL, LIQUID N.O.S. (INCLUDES SPIROMESIFEN)

### IMDG

UN-No. : 3082

Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes

Product type : UN 3082 ENVIRONMENTAL HARMFUL MATERIAL, LIQUID N.O.S. (INCLUDES SPIROMESIFEN)

### IATA

UN-No. : 3082

Class : 9

Packing Group : III

Product type : UN 3082 ENVIRONMENTAL HARMFUL MATERIAL, LIQUID N.O.S. (INCLUDES SPIROMESIFEN)



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## 16. REGULATORY INFORMATION

17. This data sheet is prepared based on regulation on preparation and distribution of safety data sheets about hazardous materials and preparations (O.G. issue no 27092 dated 26/12/2008).

### Hazard Marks and Symbols:



**Xi: Irritant**

**N: Dangerous for Environment**

### Hazardous Materials Listed on the Label

Includes Spiromesifen

### Risk Phrases:

#### Physicochemical: -

#### Health :

R43 : May make sensitive in case of contact with skin.

#### Environment :

R50 : Too toxic for aquatic organisms.

R53 : May cause long-term negative effects in aquatic environments

### Safety Phrases:

S1/2 : Keep it locked and a place where children cannot reach

S13 : Keep away from food, drink and animal feed

S 29 : Do not spill in sewage system.

S36/37/39 : Wear appropriate protective clothes, gloves and glass/mask.

S46 : If swallowed, call a doctor. Show the container or label



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S 56 : Dispose of this material and its container dangerous or special waste collection areas.

S 61 : Avoid releasing to environment. Apply Special Usage Instruction/Safety Data Sheet.

### Important Labeling:

Follow instructions to avoid personal and environmental risks.

### 18. OTHER INFORMATION

N : Dangerous for Environment

**Xi** : Irritant

#### All Risk Phrases under Section 2:

R43 : May make sensitive in case of contact with skin.

R50 : Too toxic for aquatic organisms.

R53 : May cause long-term negative effects in aquatic environments

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**Release Date** : 19/08/2011

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**Prepared by** : Secil CANAYAKIN

This material safety data sheet is provided as a supplement to instructions of manufacturer; however it does not replace instructions of manufacturer. The information provided in this sheet only conforms to the regulatory criteria known at the time of the preparation of Safety Data Sheet. Required data are gathered in accord with "Regulation on Preparation and Distribution of Safety Data Sheets about Hazardous Materials and preparations (O.G. issue no 27092 dated 26/12/2008)". Concerned organizations and persons are invited to comply with the abovementioned regulation.