

# MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

FENAMID 50 SC

Date of Preparation	06/11/2015
Date of Issue	06/11/2015
MSDS No	FORM_MSDS_R&D_264_00
Renewal Date/No	

Page No: 1/10

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** : FENAMID 50 SC  
**Product Content** : Epoxiconazole 187 g/L + Thiophanate Methyl 310 g/L  
**Formulation Form** : SC (Suspension Concentrate)

#### Epoxicomazole

**Cas No** : 133855-98-8  
**EC No** : -  
**FRAC** : 3, G1 SBI Class I

#### Thiophanate Methyl

**Cas No** : 23564-05-8  
**EC No** : 245-740-7  
**FRAC** : 1, B1 MBC

### 1.2 Usage of the Material/Preparation:

Fungicide

### 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** : +900232 864 16 79

### 1.4 Emergency Contact Telephone:

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

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Date of Preparation	06/11/2015
Date of Issue	06/11/2015
MSDS No	FORM_MSDS_R&D_264_00
Renewal Date/No	

Page No: 2/10

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).

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Epoxiconazole	187	133855-98-8	-	Xn,N	R40, R51/53, R62, R63	Xn; R40, R50/53, R62, R63
Thiophanate Methyl	310	23564-05-8	245-740-7	Xn,N	R20, R43, R50/53, R68	Xn, N; R20, R43, R50/53, R68
Mono Propilene Glicol	50	57-55-6	200-338-0	-	-	-
Others	Outside classification due to absence of hazardous material.					

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

## 3. HAZARD IDENTIFICATION:



**Xn: Harmful**

**N: Dangerous for environment**

R20 - Harmful by inhalation.

R40 - Limited evidence of a carcinogenic effect.

R43 - May cause sensitisation by skin contact.

R50/53: Too toxic for aquatic organisms, can cause long time adverse effect in aquatic environment.

R62 - Possible risk of impaired fertility.

R63 - Possible risk of harm to the unborn child.

R68 - Possible risk of irreversible effects.

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FENAMID 50 SC

Date of Preparation	06/11/2015
Date of Issue	06/11/2015
MSDS No	FORM_MSDS_R&D_264_00
Renewal Date/No	

Page No: 3/10

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).

#### 4. FIRST AID MEASURES:

**If contaminated eye**, wash with plenty of water for at least 15-20 minutes. Call a doctor if the symptoms persist.

**In case of contact with skin**, take off the contaminated clothes and wash the contaminated part of body with plenty water and soap for 15-20 minutes. Call a doctor if the symptoms persist.

**If swallowed**, rinse the mouth. Do not induce vomiting. Do not give anything orally or puke the unconscious patient. Call a doctor immediately.

**In case of inhale**, take the patient to fresh air. Apply artificial respiration if required. Call a doctor immediately.

**Antidote:** There is no specific antidote. The treatment is applied according to the symptoms

#### 5. FIRE FIGHTING MEASURES

**Extinguishers:** Water spray, carbon dioxide, foam, dry chemicals.

**The gases to arise in case of fire:** Carbon monoxide, carbon dioxide, corrosive gases and vapors. Prevent the spillage of fire contaminated water.

Cool the containers with plenty of water until the fire is removed.

**The equipment required for fire-fighting:** Use protective clothes and equipment (goggles, mask, gloves, and boots). Tube respiratory device is required.

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FENAMID 50 SC

Date of Preparation	06/11/2015
Date of Issue	06/11/2015
MSDS No	FORM_MSDS_R&D_264_00
Renewal Date/No	

Page No: 4/10

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).

### 6. ACCIDENTAL RELEASE MEASURES:

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

**Clean-up Methods:** Product is collected with liquid holder materials (such as sand, sawdust, chemical binders). Collect the material in tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations. Prevent contaminating sewage system or running water by the product. Notify the authorities if the wastes contaminate the water.

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

### 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, drink and animal feed items. Keep away from direct sunlight. Protect against freezing. Keep it in places that children cannot reach.

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FENAMID 50 SC

Date of Preparation	06/11/2015
Date of Issue	06/11/2015
MSDS No	FORM_MSDS_R&D_264_00
Renewal Date/No	

Page No: 5/10

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).

## 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** : Liquid

**Color** : White-beige liquid.

**Odor** : Characteristic odor

**Density** :  $1,1 \pm 0,05 \text{ g/cm}^3$  (20°C)

**pH** : 5-9 1% (20°C)

**Viscosity** : 1000-5000 mps (Brokfield DV-I) 20°C

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Renewal Date/No	

Page No: 6/10

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).

## 10. STABILITY AND REACTIVITY

**Conditions to be avoided** : Extreme degrees and direct sun light.  
**Materials to be avoided** : Not known.  
**Dangerous reaction** : No dangerous reaction in appropriate storage and usage.

## 11. TOXICOLOGICAL INFORMATION

### Epoxiconazole Technical

**Oral** Acute oral LD<sub>50</sub> for rats >5000 mg/kg.  
**Skin and eye** Acute percutaneous LD<sub>50</sub> for rats >2000 mg/kg. Non-irritating to eyes and skin of rabbits.  
**Inhalation** LC<sub>50</sub> (4 h) for rats >5.3 mg/l air.  
**NOEL** (carcinogenicity) for mice 0.81 mg/kg b.w.  
**ADI/RfD** (EC) 0.008 mg/kg b.w. [2008]; (EPA) aRfD 0.05, cRfD 0.02 mg/kg [2006].  
**EC classification** R40| R62| R63| N; R51, R53

### Thiophanate Methyl Technical

**Oral** Acute oral LD<sub>50</sub> for male rats 7500, female rats 6640, male mice 3510, male rabbits 2270 mg/kg.  
**Skin and eye** Acute percutaneous LD<sub>50</sub> for male and female rats >10 000 mg/kg. Mild skin and eye irritant.  
**Inhalation** LC<sub>50</sub> (4 h) for rats 1.7 mg/l air.

## 12. ECOLOGICAL INFORMATION

### Epoxiconazole Technical

**Birds** Acute oral LD<sub>50</sub> for quail >2000 mg/kg. LC<sub>50</sub> for quail 5000 mg/kg.  
**Fish** LC<sub>50</sub> (96 h) for trout 2.2–4.6, bluegill sunfish 4.6–6.8 mg/kg.

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FENAMID 50 SC

Date of Preparation	06/11/2015
Date of Issue	06/11/2015
MSDS No	FORM_MSDS_R&D_264_00
Renewal Date/No	

Page No: 7/10

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).

**Daphnia** LC<sub>50</sub> (48 h) 8.7 mg/l.

**Algae** EC<sub>50</sub> (72 h) for green algae 2.3 mg/l.

**Bees** LD<sub>50</sub> >100 µg/bee.

**Worms** EC<sub>50</sub> (14 d) >1000 mg/kg soil.

## Thiophanate Methyl Technical

**Birds** Acute oral LD<sub>50</sub> for bobwhite quail and mallard ducks >4640 mg/kg.

**Fish** LC<sub>50</sub> (96 h) for rainbow trout 11, carp >62.9 mg/l.

**Daphnia** LC<sub>50</sub> (48 h) 5.4 mg/l.

**Algae** EC<sub>50</sub> (72 h) for *Pseudokirchneriella subcapitata* >25.4 mg/l.

**Bees** Not toxic to bees; LD<sub>50</sub> (topical) >100 µg/bee.

## 13. 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.

## 14. TRANSPORTATION INFORMATION

ADR/RID/ADNR

UN-No. : 3082

Hazard Mark : 9

Packing Group : III

Product type : UN 3082 MATERIAL HARMFUL FOR ENVIRONMENT, LIQUID N.O.S (INCLUDES EPOXICONAZOLE AND THIOPHANATE METHYL)



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Renewal Date/No	

Page No: 8/10

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).

## IMDG

**UN-No.** : 3082

**Class** : 9

**Packing Group** : III

**EMS** :

**Marine Pollutant** : Yes

**Product type** : UN 3082 MATERIAL HARMFUL FOR ENVIRONMENT, LIQUID N.O.S (INCLUDES EPOXICONAZOLE AND THIOPHANATE METHYL)

## IATA

**UN-No.** : 3082

**Class** : 9

**Packing Group** : III

**Product type** : UN 3082 MATERIAL HARMFUL FOR ENVIRONMENT, LIQUID N.O.S (INCLUDES EPOXICONAZOLE AND THIOPHANATE METHYL)

## 15. REGULATORY INFORMATION

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:



Xn: Harmful



N: Dangerous for environment



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MSDS No	FORM_MSDS_R&D_264_00
Renewal Date/No	

Page No: 9/10

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).

## Hazardous Materials Listed on the Label

Includes Epoxiconazole and Thiophanate Methyl

### Health :

- R20 - Harmful by inhalation.
- R40 - Limited evidence of a carcinogenic effect.
- R43 - May cause sensitization by skin contact.
- R62 - Possible risk of impaired fertility.
- R63 - Possible risk of harm to the unborn child.
- R68 - Possible risk of irreversible effects.

### Environment :

R50/53: Too toxic for aquatic organisms and may cause long-term adverse effects in the aquatic environment.

### Safety Phrases:

- S1/2 : Keep locked up and out of the reach of children
- S13 : Keep away from food, drink and animal foodstuffs
- S 24 : Avoid contact with skin
- S29 : Do not empty into drains
- S 36 : Wear suitable protective clothing
- S 37 : Wear suitable gloves
- S 46 : If swallowed, seek medical advice immediately and show this container or label
- S 56 :Dispose of this material and its container to hazardous or special waste collection point

### Important Labeling:

Follow instructions to avoid personal and environmental risks

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FENAMID 50 SC

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Date of Issue	06/11/2015
MSDS No	FORM_MSDS_R&D_264_00
Renewal Date/No	

Page No: 10/10

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).

### 16. OTHER INFORMATION

**N** : Dangerous for the Environment

**Xn** : Harmful

#### All Risk Phrases under Section 2:

R20 - Harmful by inhalation.

R40 - Limited evidence of a carcinogenic effect.

R43 - May cause sensitization by skin contact.

R50/53 - Too toxic for aquatic organisms and may cause long-term adverse effects in the aquatic environment.

R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 - Possible risk of impaired fertility.

R63 - Possible risk of harm to the unborn child.

R68 - Possible risk of irreversible effects.

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**Prepared By** : Remzican Karan

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.