

## PRODUCT SAFETY DATA SHEET

**SUBSTANCE / PREPARATION NAME**

**TIGANEX**

Date of preparation	17/06/2011
Release Date	22/06/2011
MSDS No	FORM_MSDS_R&D_015_00
Renewal Date/No	

Page Number: 1/8

This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

### 1. SUBSTANCE/PREPARATION AND COMPANY/ DEFINITION OF BUSINESS

#### OWNER:

#### 1.1 Substance/ Presentation Of The Preparation:

**Product Name** : TIGANEX  
**Product Description** : PYRIMETHANIL 300 G/L  
**Formulation Type** : SC (Suspension Concentrate)  
**Cas No** : 53112-28-0  
**EC No** : 414-220-3  
**FRAC** :9, D1 anilinopyrimidine

#### 1.2 Usage of Substance/Preparation:

Fungicide

#### 1.3 Presentation of the Company:

##### Manufacturer and Licensee Company:

**Company Name** : AGRİ SCIENCES TARIM VE İLAÇ ÜR. SAN. TİC. LTD. ŞTİ.  
**Adress** : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR  
**Telephone** : +90 0232 864 13 33  
**Fax** : +90 0232 864 16 79

#### 1.4 Emergency Telephone:

Please call +90 0232 864 13 33 in an emergency.

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SUBSTANCE / PREPARATION NAME

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Release Date	22/06/2011
MSDS No	FORM_MSDS_R&D_015_00
Renewal Date/No	

Page Number: 2/8

This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

### 2. INFORMATION ABOUT THE CONTENT/COMPOSITION :

Substance	g/L	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Pyrimethanil	300	53112-28-0	414-220-3	N	R51, R53	N; R51, R53
Diethylene Glycol	100	111-46-46	203-872-2	Xn	R22	-
Others	These are excluded because of not containing hazardous substance.					

- Descriptions about <sup>1</sup>R are given in chapter 16.

### 3. IDENTIFICATION OF HAZARDS:



**N: Dangerous for the environment**

R51 : Toxic to aquatic organisms.

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

### 4. First Aid Precautions:

**Symptoms of Poisoning:** There are not any specific symptom.

**First Aid Precautions:** In the poisoning case remove the patient from the sprayed field, If he/she is at closed area, you must immediately send him to fresh air. If it is contacted with eye, flush eyelids slowly for 15 minutes. If necessary, consult to a doctor with medication.

**Antidote:** There is not specific antidote. In the case of poisoning, call the international poison center.

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**TIGANEX**

Date of preparation	17/06/2011
Release Date	22/06/2011
MSDS No	FORM_MSDS_R&D_015_00
Renewal Date/No	

Page Number: 3/8

This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

### 5. FIRE CONFLICT PRECAUTIONS

**Required Personal Protective Equipment in Aid:** Do not breathe fumes of explosion and fire. If possible, use self contained breathing apparatus during fire.

**Hazards:** Formation of dangerous gases is taken into account in case of fire.

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

**Other Informations:** Remove the product from fire areas, cool containers with water. If possible, use sand or earth after fire fighting water.

### 6. ACCIDENTAL RELEASE PRECAUTIONS:

**General Information:** Use personal protection devices, specified in section 8.

**Personal Alerts:** Avoid contact with spilled product or contaminated areas. Do not eat, drink or smoke when dealing with spilled product.

**The Cleaning Process:** The product is collected with liquid retaining material (such as peat, sawdust, chemical binder. Substance collected into hard plastic containers and stored in a secure way until to destroy. Contaminated substances, cleaned according to environment and ground instructions. The product flowing to drains or sewers is blocked. If waste is mixed with water, it is reported to the authorities.

**Additional Precautions:** Look at section 7 for safe use. Look at section 8 for personal protective equipment. Look at section 13 for disposal.

### 7. HANDLING AND STORAGE

**Handling** : Use personal protective equipments specified in section 8. Do not eat or drink anything during the usage. Avoid contact with skin and eyes. Do not breathe it. Wash your hands after usage. It does not need any other security precautions other than instructions on it. Use only the rooms with appropriate exhaust ventilation.

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Release Date	22/06/2011
MSDS No	FORM_MSDS_R&D_015_00
Renewal Date/No	

Page Number: 4/8

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**Storage** : Store in original container in a cool, dry and well-ventilated place. Keep away from foods, drinks and animal feedstuffs. Protect from direct sunlight. Protect against freezing, do not put to reach area of children.

The storage temperature 0-30° C

### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering Precautions:** Keep the substance concentration below the allowable limits by providing the appropriate general or regional ventilation.

**Personal Protective Equipment:**

**Eye** : Use safety glasses according to EN 166.

**Skin** : Use protective clothing and suitable gloves. If possible, use 2 layers of clothing. Use CE marked Nitrile rubber gloves (min 0,40 mm thick). Wash contaminated gloves. Dispose of the not cleanable gloves.

**Respiration:** Use breathing apparatus according to EN 149:2001. Breathing apparatus only used in short-term works to reduce the risk, for example, in local ventilations. Warning instructions prepared by manufacturers about respiratory protection apparatus must be followed.

**Hygiene Precautions:** Do not eat, drink or smoke during usage. Wash your hands every time before going to the toilet, eating, drinking and smoking.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Liquid, viskose

**Color** : Beige-brown

**Smell** : Odorless

**Density** : 1,045± 0,05 g/cm<sup>3</sup> (20<sup>0</sup>C)

**pH** : 5-8 10% (20<sup>0</sup>C)

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TIGANEX

Date of preparation	17/06/2011
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MSDS No	FORM_MSDS_R&D_015_00
Renewal Date/No	

Page Number: 5/8

This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

### 10. STABILITY AND REACTION

**Conditions to avoid** : Extereme temperatures and direct sunlight.

**Substances to avoid** : Avoid from strong acids and bases.

**Hazardous reactions** : There is not hazardous reactions when stored and handled suitable. Resistant to storage conditions. Hazardous polymerization products does not occur.

### 11. TOXICOLOGICAL INFORMATION

#### Pyrimethanil Technical Substance:

Oral Acute oral LD<sub>50</sub> for rats 4150–5971, mice 4665–5359 mg/kg. Skin and eye Acute percutaneous LD<sub>50</sub> for rats >5000 mg/kg. Non-irritating to skin and eyes (rabbits). Not a skin sensitiser (guinea pigs). Inhalation LC<sub>50</sub> (4 h) for rats >1.98 mg/l. NOEL (90 d) for rats 5.4 mg/kg b.w. daily; (2 y) for rats 17 mg/kg b.w. daily (*EFSA Sci. Rep.*). ADI/RfD (JMPR) 0.2 mg/kg b.w. [2007]; (EC) 0.17 mg/kg b.w. [2006]; (EPA) 0.2 mg/kg b.w. [1995]. **Other** Negative in mutagenicity tests, and non-teratogenic in rats and rabbits.

### 12. ECOLOGICAL INFORMATION

#### Pyrimethanil Technical Substance:

**Birds** Acute oral LD<sub>50</sub> for mallard ducks and bobwhite quail >2000 mg/kg. LC<sub>50</sub> (5 d) for mallard ducks and bobwhite quail >5200 mg/kg diet. **Fish** LC<sub>50</sub> (96 h) for mirror carp 35.4, rainbow trout 10.6 mg/l. **Daphnia** LC<sub>50</sub> (48 h) 2.9 mg/l. **Algae** E<sub>b</sub>C<sub>50</sub> (96 h) 1.2 mg/l, E<sub>r</sub>C<sub>50</sub> (96 h) 5.84 mg/l. **Bees** LD<sub>50</sub> (oral and contact) >100 µg/bee. **Worms** LC<sub>50</sub> (14 d) for earthworms 625 mg/kg dry soil. **Other beneficial spp.** Under conditions of good agricultural practice applications in the field, does not affect non-target arthropod populations.

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Renewal Date/No	

Page Number: 6/8

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### 13. DISPOSAL INFORMATION

**Product** : Wastes should be disposed of with household waste. The remaining amount of waste must not be poured into a sewage canal. Hazardous waste should be disposed of according to control regulations.

**Contaminated Packing** : Empty containers should be used for other products. Completely emptied and shaken containers must be properly disposed. Uncontaminated packaging should be disposed of as hazardous waste.

### 14. TRANSPORT INFORMATION

#### ADR/RID/ADNR

**UN-No.** : 3082

**Hazard Signal** : 9

**Packaging Group** : III

**Property of the product** : UN 3082 ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID N.O.S.(CONTAINING PYRIMETHANIL.)

#### IMDG

**UN-No.** : 3082

**Class** : 9

**Packaging Group** : III

**EMS** :

**Marine Pollutant** : Evet

**Property of the product** : UN 3082 ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID N.O.S.(CONTAINING PYRIMETHANIL.)

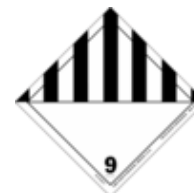
#### IATA

**UN-No.** : 3082

**Class** : 9

**Packaging Group** : III

**Property of the product** : UN 3082 ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID N.O.S.(CONTAINING PYRIMETHANIL.)



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Renewal Date/No	

Page Number: 7/8

This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

### 15. REGULATORY INFORMATION

This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

#### Hazard Signal and Symbol:



**N: Dangerous for the environment**

#### Hazardous Substances Found On The Label

Containing Pyrimethanil.

#### Risk Phrases

**Physicochemical:-**

**Health:-**

**Environment**

R51 : Toxic to aquatic organisms.

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

#### Safety Phrases:

S1/2 : Keep away from children and store under lock.

S13 : Keep away from foods, drinks and animal feedstuffs

S 29 :Do not pour into sewer system.

S 56 : Dispose the material at hazardous or special waste collection point.

S61 :Avoid release to the environment. Refer to special instructions/safety data sheet

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Page Number: 8/8

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### **Important Labeling :**

To avoid from risks to man and environment, comply with the instruction of use.

Toxicity class WHO (a.i.) III

### **16. OTHER INFORMATIONS**

**N** : Dangerous for the environment

**Xn** : Harmful

#### **Risk phrases mentioned in Section 2:**

R22 : Harmful if swallowed.

R51 : Toxic to aquatic organisms

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

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**Date of Renewal/No** :-

**Prepared By** : Seçil CANAYAKIN

This security information form is additional to manufacturer firm's instructions, however does not replace with instructions. This form contains regulation criterias for preparation of security form preparation. This form is based on safety data forms and regulation about the preparation and distribution of hazardous substances (dated 26/12/2008 and 27092 numbered). Please, the relevant institutions and individuals act according to this regulation.