

# PRODUCT SAFETY DATA SHEET

**SUBSTANCE / PREPARATION NAME**

**AGRIFLOW**

Date of preparation	10/07/2015
Release Date	10/07/2015
MSDS No	FORM_MSDS_R&D_183_00
Renewal Date/No	

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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** : AGRIFLOW  
**Product Description** : Sulphur 800 g/L  
**Formulation Type** : SC (Suspension Concentrate)  
**Cas No** : 7704-34-9  
**EC No** : 231-722-6  
**FRAC** : M2, M multi-site: inorganic

#### 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.

## 2. INFORMATION ABOUT THE CONTENT/COMPOSITION :

Substance	g/L	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Sulfur	80	7704-34-9	231-722-6	Xi	R38	Xi; R38
Others	These are excluded because of not containing hazardous substance.					

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

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### 3. IDENTIFICATION OF HAZARDS:



**Xn: Harmful**

R38 : Irritating to skin

### 4. First Aid Precautions:

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

**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.

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

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### 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.

**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.

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### 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  
**Color** : Yellow - Brown  
**Smell** : Characteristic  
**Density** :  $1,40 \pm 0,05 \text{ g/cm}^3$  (20°C)  
**pH** : 4-7 10% (20°C)

### 10. STABILITY AND REACTION

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

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

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

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### 11. TOXICOLOGICAL INFORMATION

#### Sulphur Substance:

**Oral** Acute oral LD<sub>50</sub> for rats >5000 mg/kg.

**Skin and eye** Acute dermal LD<sub>50</sub> for rats >2000 mg/kg. Irritating to skin and mucous membranes (not observed with 'Kumulus DF', 'Thiovit Jet').

**Inhalation** LD<sub>50</sub> (4 h) for rats >5430 mg/m<sup>3</sup>.

**Other** Practically non-toxic to humans and animals.

**Toxicity Class** WHO (a.i.) U; EPA (formulation) IV

### 12. ECOLOGICAL INFORMATION

#### Sulphur Substance:

**Birds** Acute oral LC<sub>50</sub> (8 d) for bobwhite quail >5000 ppm.

**Fish** Non-toxic to fish.

**Daphnia** LC<sub>50</sub> (48 h, static) >665 mg/l.

**Algae** EC<sub>50</sub> (72 h) for *Ankistrodesmus bibraianus* >232 mg/l.

**Bees** Non-toxic to bees.

**Worms** LC<sub>50</sub> (14 d) >1600 mg/l.

### 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 Packaging** : 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.

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## 14. TRANSPORT INFORMATION

### ADR/RID/ADNR

**UN-No.** :-  
**Hazard Signal** :-  
**Packaging Group** :-  
**Property of the product** :-

### IMDG

**UN-No.** :-  
**Class** :-  
**Packaging Group** :-  
**EMS** :  
**Marine Pollutant** :-  
**Property of the product** :-

### IATA

**UN-No.** :-  
**Class** :-  
**Packaging Group** :-  
**Property of the product** :-

## 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 Copper Sulphate pentahydrate.

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### **Risk Phrases**

#### **Physicochemical:-**

#### **Health:**

**R38** : Irritating to skin

#### **Environment**

#### **Safety Phrases:**

**S1/2** : Keep locked up and out of the reach of children

**S13** : Keep away from food, drink and animal foodstuffs

**S36/37/39** : Wear suitable protective clothing, gloves and eye/face protection

**S46** : If swallowed, seek medical advice immediately and show this container or label

**S64** : If swallowed, rinse mouth with water (only if the person is conscious)

#### **Important Labeling:**

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

### **16. OTHER INFORMATIONS**

**Xi** : Harmful

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

**R38** : Irritating to skin

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**Date of Preparation** : 10/08/2015  
**Release Date** : 10/08/2015  
**MSDS No** :FORM\_MSDS\_R&D\_183\_00  
**Date of Renewal/No** :-  
**Prepared By** : Remzi Can KARAN

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.