

# MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

**DIAFLEX**

Date of Preparation	05/08/2011
Date of Issue	19/08/2011
MSDS No	FORM_MSDS_R&D_031_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** : **DIAFLEX**  
**Product Content** : Sulphur % 80  
**Formulation Form** : WG (Water Dispersible Granule)

**Cas No** : 7704-34-9  
**EC No** : 231-722-6  
**FRAC** : M2, M Multi-site: inorganic

### 1.2 Usage of the Material/Preparation:

Fungicide

### 1.3 Company Identification:

#### 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

#### Manufacturing Company:

**Company Name** : ASTRANOVA TARIM TICARET VE SAN. A.S.  
**Address** : Mersin – Tarsus Organize Sanayi Bolgesi Cumhuriyet Caddesi  
No: 15 Tarsus - MERSIN  
**Telephone** : +90 0324 676 42 78  
**Fax** : +90 0324 676 42 80

### 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	%	CAS No	EINECS/ELINCS	Hazard	R <sup>1</sup>	Classification
Sulphur	80	7704-34-9	231-722-6	Xi	R38	Xi; R38
Others <sup>2</sup>		-	-	-	-	-

- <sup>1</sup> R explanations are under section 16.
- <sup>2</sup> Outside classification due to absence of hazardous material.

## 3. HAZARD IDENTIFICATION:



**Xn: Irritant**

R38 : Irritates skin.

## 4. FIRST AID MEASURES:

**Poisoning indicators:** If swallowed in plenty amount, qualm, vomit, headache, diarrhoea and dormancy may be occurred.

**First Aid Measures:** In case of emergency, call a doctor; take the pesticide label with you. Take the patient to a well-ventilated place. Take the contaminated clothes off, wash the contaminated parts of the body with soap and plenty of water. If pesticide squirts to eyes, wash with plenty of water for 15 minutes by opening the eyelid. If swallowed, do not puke.

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

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### 5. FIRE FIGHTING MEASURES

**Appropriate extinguishers:**

**Extinguishers for small fires:** Water fog, alcohol resistant foam, dry chemical powder or carbon dioxide is used.

**Extinguishers for huge fires:** Alcohol resistant foam or water fog is used.

**Possible dangers during extinguishing the fire:** The fire expands in flames. Due to the fact that the product involves in flammable organic components, an extensive black fume will be occurred. It may be hazardous to be exposed to decayed products.

**Personal protection equipment for fire fighting:** Tube respiratory devices must be used during fire fighting. .

**Other Information:** Prevent the fire water to involve in sewerage system and ground water. Cool the containers, being exposed to fire, using water

### 6. ACCIDENTAL RELEASE MEASURES:

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

**Pour/Leak** : Collect the poured material and send it to be disposed. Fill the collected product into tight closed containers. See Section 13 for the collected material.

**Personal Precautions:** Use protective clothes. Avoid being contacted to skin, eyes and clothes. Avoid occurring dust.

**Environmental Precautions:** Do not discharge to soil/underground. Do not discharge to sewerage system/ water/ ground water.

**Clean-up Methods** : For little amount: Hold it with dust binding material and remove it. For plenty amount: Clean it with mechanic methods. Avoid raising dust. Use respiratory devices during the cleaning. Remove the absorbed material according to the regulations. Collect the waste in easy to label and sealable containers. Clean the contaminated areas with water and cleaning materials considering environmental regulations.

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### 7. HANDLING AND STORAGE

**Handling** : Please use the personal protection equipment specified under Section 8.

**How to use** : It is not required special precautions if stored and used correctly. Provide well ventilation for warehouse and working areas. Read the label before using.

**Protection against fire and explosion:** Avoid occurring dust. Avoid piling dust up. Accumulating of thin dusts may cause a dust explosion with existence of air. Prevent electrostatic charge – flaring sources must be kept well – extinguishers must be ready. In case of sparking, explosion may be occurred. Flame, hot places, mechanic sparks and drains, arising from electrostatic discharge, may be explosion source. The used electrical devices must be chosen as per the explosive characteristics of this product. Inflammableness of this product increases on environments, involving a little bit solvent or solvent vapour. Generally, the personnel, using this product and the equipment must be grounded electrically. Insulator plastic materials must not be used. During the usage of product (loading/discharging), if used dust filters, they must be conductive and must be grounded electrically. If used metal of craft drum, be sure that metal parts are bound to loading machine and two of them are grounded. This product may be charged with pneumatic transportation. Be careful not to contact with skin and eyes.

**Storage** : Keep away from food and animal feed items.

Additional Details about Storage Conditions: Protect from exposure to moisture, hot, direct sunlight.

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## 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.

Wash your hands each time before eating, drinking, smoking or going to the toilet.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** : Granule

**Colour** : Brown

**pH** : 7-11 (in distillate water of 10%)

**Accumulation Intensity** :  $0,8 \pm 0,05 \text{ kg/m}^3$

**Water solubility** : It disperses

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### 10. STABILITY AND REACTIVITY

**Thermal degradation:** No degradation if used and stored as notified / foreseen

**Hazardous reactions :** No hazardous reaction if used and stored as notified / stated.

**Hazardous decay product:** No decay product if used and stored as notified / foreseen

### 11. TOXICOLOGICAL INFORMATION

#### **Sulphur Technical Material:**

Acute oral LD<sub>50</sub> rat >5000 mg/kg.

Eye and skin Acute dermal LD<sub>50</sub> rat > 2000 mg/kg. It is irritant to skin and mucosa.

Inhalation LD<sub>50</sub> (4 hours) rat > 5430 mg/m<sup>3</sup>.

Others: Not toxic for human and animal practically.

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

### 12. ECOLOGICAL INFORMATION

#### **Sulphur Technical Material:**

Birds: Acute Oral LC<sub>50</sub> (8 days) bobwhite quail >5000 ppm.

Fish: Not toxic for fish.

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

Algae EC<sub>50</sub> (72 hours) *Ankistrodesmus bibrainus* >232 mg/l

Bee: Not toxic

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## 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

It is not in hazardous material class for transportation

### ADR/RID/ADNR

**UN-No.** :-

**Hazard Mark** :-

**Packing Group** :-

**Product type** :-

**IMDG** :-

**UN-No.** :-

**Class** :-

**Packing Group** :-

**Marine Pollutant** :-

**Product Type** :-

### IATA

**UN-No.** :-

**Class** :-

**Packing Group** :-

**Product Type** :-

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## 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:



### Xi: Irritant

### Hazardous Materials Listed on the Label

Includes Sulphur

### Risk Phrases:

**Physicochemical** : -

**Health** :

R38 : It irritates skin.

**Environment** : -

### Safety Phrases:

S1/2: Lock it up and keep out of the reach of children.

S13: Keep away from food, drink and animal feed items.

S36/37/39: Use appropriate protective clothes, gloves and glasses/mask

S46: Contact a doctor if swallowed, show the container or label.

S64: Wash the mouth with water (if the patient is conscious only.)

### Important Labelling:

Follow instructions to avoid personal and environmental risks.



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### 16. OTHER INFORMATION

Xi: IRRITANT

#### All Risk Phrases under Section 2:

R38 : Irritates skin.

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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.