

## MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

**RAPIDOX 50 WG**

Date of Preparation	15/07/2011
Date of Issue	18/07/2011
MSDS No	FORM_MSDS_R&D_029_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** : **RAPIDOX 50 WG**  
**Product Content** : TRIFLOXYSTROBIN % 50  
**Formulation Form** : Water Dispersible Granule (WG)  
**Cas No** : 141517-21-7  
**FRAC** : 11, C3 QoI; strobilurin type: oximinoacetate

#### 1.2 Madde / Müstahzarın Kullanımı:

Fungicide

#### 1.3 Company Identification:

##### Manufacturing and License Holding Company:

**Company Name:** AGRİ SCIENCES TARIM VE İLAÇ ÜR. SAN. TİC. LTD. ŞTİ.

**Address** : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR

**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:

Madde	%	CAS No	EINECS /ELINCS	Hazard	R <sup>1</sup>	Classification
Trifloxystrobin	50	141517-21-7	-	Xi, N	R43, R50, R53	Xi; R43, N; R50, R53
Amorphous Silica	9	61790-53-2	-	Xi	R36/37	-
Others <sup>2</sup>	-	-	-	-	-	-

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

### 3. HAZARD IDENTIFICATION:



**Xi: Irritant**



**N: Dangerous for the environment**

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in aquatic environments.

### 4. FIRST AID MEASURES:

TOXICOLOGICAL SYMPTOMS: There is no symptom known.

FIRST AID MEASURES: If you suspect for poisoning, break out immediately, call a doctor, show label. If swallow and the patient is conscious, vomiting him. Give him a plenty of active carbon and treatment symptomatically. If the patient isn't conscious, don't give anything via oral.

ANTIDOTE AND REQUIRED INFORMATION: No specific antidote is known. Treatment symptomatically.

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## 5. FIRE FIGHTING MEASURES

**Important protection equipment for fire fighting:** Do not inhale the gases that may occur during explosion and fire. If possible, wear air-free breathing mask during fire..

**Hazards:** Toxic gases that may occur during fire must be taken into account.

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

**Other Information:** Remove the product from the fire location, cool the containers with water. If possible, use sand or soil after the fire-fighting 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.

**Spill Clean-up Procedure:** Collect the product with a liquid retaining material (e.g. sand, sawdust, chemical binders). 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.

**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 handling the product. Avoid contact with the mouth, the skin or the eyes. Do not inhale the product. After handling the product thoroughly you're your hands. When handling closed containers no additional safety precautions other than the specified ones are needed. Only handle the product in rooms with a local suction device.

**Storage** : Please store the product in its original container, in a cool, dry and well-ventilated place. Keep away from food, drink and animal feed items. Protect from exposure to direct sunlight. Protect against freezing. Keep the product away from the reach of children.

## 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 Protection:** Use eye protection equipment compliant with EN 166.

**Skin Protection:** 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 Protection:** 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.

**Good Hygiene Conditions:** Do not eat, drink or smoke while handling the product. Make sure to wash your hands each time before eating, drinking, smoking or going to the toilet.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Granule  
**Colour** : Light Brown  
**Odour** : Light characteristic  
**pH** : 8-11 (% 1 lik solution)  
**Solubility in water** : It dispersed

### 10. STABILITY AND REACTIVITY

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

**Hazardous reactions:** When stored and handled appropriately no hazardous reactions are observed.

**Hazardous Decomposition Products** : When stored and handled appropriately no Hazardous Decomposition Products are occurred.

### 11. TOXICOLOGICAL INFORMATION

#### Trifloxystrobin Technical Material

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. Classified as non-irritating to skin and eyes (rabbits). May cause sensitisation by skin contact. Inhalation LC<sub>50</sub> for rats >4650 mg/m<sup>3</sup>. NOEL NOAEL (2 y) for rats 9.8 mg/kg b.w. daily (value used by EU); (2 generation for rats) 3.8 mg/kg b.w. daily (used by US, JMPR/WHO) ADI/RfD (JMPR) 0.04 mg/kg b.w. [2004]; (EC) 0.1 mg/kg b.w. [2003]; (EPA) aRfD 2.5, cRfD 0.038 mg/kg b.w. [2003]. Other Non-mutagenic, non-teratogenic, non-carcinogenic; no adverse effects on reproduction. Toxicity Class WHO (a.i.) III (company classification). EC classification R43| N; R50, R53

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### 12. ECOLOGICAL INFORMATION

#### **Trifloxystrobin Technical Material**

Birds Acute oral LD<sub>50</sub> for bobwhite quail >2000, mallard ducks >2250 mg/kg. Dietary LC<sub>50</sub> for bobwhite quail and mallard ducks >5050 ppm. Fish LC<sub>50</sub> (96 h) for rainbow trout 0.015, bluegill sunfish 0.054 mg/l. Daphnia LC<sub>50</sub> (48 h) 0.016 mg/l. Algae E<sub>b</sub>C<sub>50</sub> for *Scenedesmus subspicatus* 0.0053 mg/l. Other aquatic spp. Toxic to aquatic organisms in laboratory tests, but rapid dissipation in biotic environments. Low risk to aquatic ecosystems has been demonstrated in outdoor mesocosm tests. Bees LD<sub>50</sub> (oral and contact) >200 µg/bee. Worms LC<sub>50</sub> (14 d) >1000 mg/kg soil. Other beneficial spp. 'Twist' formulation caused 100% mortality to *Orius insidiosus* nymphs and *Aphidius colemani* adults at 250 g a.i./ha. However, field tests indicate low risk in normal use to a wide range of beneficial arthropods, including predatory mites, ground- and foliage-dwelling predators and parasitic wasps.

### 13. DISPOSAL CONSIDERATIONS

**Product** : Do not dispose product waste 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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### 14. TRANSPORT INFORMATION

#### ADR/RID/ADNR

UN-No. : 3077

Hazard Mark : 9

Packing Group : III

Product feature :UN 3077 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (DOESN'T CONTAIN WASTE) (CONTAINS  
TRIFLOXYSTROBIN)

#### IMDG

UN-No. : 3077

Class : 9

Packing Group : III

Marine Pollutant : -

Product feature :UN 3077 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (DOESN'T CONTAIN WASTE) (CONTAINS  
TRIFLOXYSTROBIN)

#### IATA

UN-No. : 3077

Class : 9

Packing Group : Product feature :UN 3077 ENVIRONMENTALLY  
HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DOESN'T CONTAIN WASTE)  
(CONTAINS TRIFLOXYSTROBIN)

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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**



**N: Dangerous for environment**

### Hazardous Materials Listed on the Label

Contains trifloxystrobin

### Risk Phrases:

**Physicochemical** : -

**Health** : R43 May cause sensitization by skin contact.

**Environment** : R50/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety Phrases:

S1/2 Keep out of reach of children

S13 Keep away from foods, drinks and animal feedstuffs

S24 Avoid to contact skin.

S36/37/39 Use suitable protective clothing, gloves and protective goggles/mask.

S46 If swallowed, seek medical advice immediately and show the label.

S56 Dispose the material at hazardous or special waste collection point.

### Important Labelling:

Follow instructions to avoid personal and environmental risks.



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## 16. OTHER INFORMATION

**Xi** :Irritant  
**N** :Dangerous for environment

### All Risk Phrases under Section 2:

**R36/37:** Irritating to eyes and respiratory system.

R43 May cause sensitization by skin contact.

R50/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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.