

PRODUCT SAFETY DATA SHEET

SUBSTANCE / PREPARATION NAME

PYRADOX

Date of preparation	28/07/2015
Release Date	28/07/2015
MSDS No	FORM_MSDS_R&D_232_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. DEFINITION OF SUBSTANCE/PREPARATION AND COMPANY/ BUSINESS OWNER:

1.1 Substance/ Presentation Of The Preparation:

Product Name : PYRADOX
Content : Triadimenol 50 g/L
Formulation Type :EW (Emulsion in Water)

Triadimenol

Cas No : 55219-65-3
EINECS : 259-537-6
FRAC : 3, G1 SBI Class I, DMI: triazole

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.
Address : 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 and Emergency and National Poison Center 114.

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2. INFORMATION ABOUT THE CONTENT/COMPOSITION :

Substance	g/l	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Triadimenol	50	55219-65-3	259-537-6	Xn, N	R20, R22, R52/53	Xn; R20,R22 N; R52/53
Solvesso 100	100	63231-51-6	-	Xn, Xi	R10, R20/21, R38	-
Others	Outside classification due to absence of hazardous material.					

- Descriptions about ¹R are given in chapter 16

3. IDENTIFICATION OF HAZARDS:



Xn: Harmful



N: Dangerous for the Environment

R20 - Harmful by inhalation.

R22 - Harmful if swallowed.

R 52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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4. FIRST AID PRECAUTIONS:

Symptoms of poisoning: May cause over-sweating, headache, fatigue, dizziness, nausea, fasciculation and vomiting.

Eye Contact: Wash eyes with plenty of water for 15 min. Consult an eye specialist. If there is any lens, take off after 5 min. Call a doctor.

Skin contact: Wash off with soap and water. Take off the contaminated clothes immediately and do not use before washing them.

If inhaled: Move patient to fresh and well-ventilated area, do not puke, call a doctor.

If swallowed: Consult to doctor with the product label and MSDS document. Do not puke.

Antidote and Required Information: There is no special antidote. Symptomatic treatment is applied.

5. FIRE-FIGHTING MEASURES

Required Personal Protective Equipment in Aid: Do not breathe the gases during the fire or explosion. Breathe with unaffected by the environment, independent air supply.

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

Fire Extinguishers: Water mist, Foam, carbon dioxide, extinguishing powder, alcohol resistant foams (TAC type).

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Further information: In areas which is well-ventilated: Full face mask with combined filters (it doesn't protect carbon monoxide!)

If even the fire is very small and easily extinguished, call the fire department. Make a light spray to keep containers cool unopened containers. Cover with sand or soil water the fire if necessary. Prevent diffusion of contamination to public open spaces, surface waters and the environment.

6. ACCIDENTAL RELEASE PRECAUTIONS:

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 Measures: Look section 7 for safe usage. Look section 7 for safe use, section 8 for personal protective equipment. Look section 13 for disposal.

7. HANDLING AND STORAGE

Handling: Keep away from acids. 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.

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: 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 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Color	: Beige-white
Odour	: Characteristic
Density	: $1,02 \pm 0,05$ (20°C)
pH	: $7,0 \pm 1,0$ g/cm ³ (10 %; in deionized water; 20 ⁰ – 25 ⁰ C)
Flash Point	: more than 70°C (Closed vessel)

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10. STABILITY AND REACTION

Conditions to Avoid : Extreme heat and direct sun light.

Materials to avoid : Strong acids and alkaline.

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

11. TOXICOLOGICAL INFORMATION

Triadimenol Technical Substance:

Oral Acute oral LD₅₀ for rats *c.* 700, mice *c.* 1300 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rats >5000 mg/kg. Non-irritating to eyes and skin (rabbits). Not a skin sensitiser.

Inhalation LC₅₀ (4 h) for rats >0.95 mg/l air (aerosol).

NOEL (2 y) for rats 125 mg/kg diet (5 mg/kg b.w. daily), dogs 600 mg/kg diet (15 mg/kg b.w. daily), male mice 80 mg/kg diet (11 mg/kg b.w. daily), female mice 400 mg/kg diet (91 mg/kg b.w. daily).

ADI/RfD (JMPR) 0.03 mg/kg b.w. [2004, 2007]; (EC) 0.05 mg/kg b.w. [2008]; (EPA) data for triadimefon are used [2006].

12. ECOLOGICAL INFORMATION

Triadimenol Technical Substance:

Birds Acute oral LD₅₀ for bobwhite quail >2000 mg/kg.

Fish LC₅₀ (96 h) for golden orfe 17.4, rainbow trout 21.3 mg/l.

Daphnia LC₅₀ (48 h) 51 mg/l.

Algae E_rC₅₀ for *Pseudokirchneriellasubcapitata* 3.738 mg/l; E_bC₅₀ for *Pseudokirchneriellasubcapitata* 9.6 mg/l.

Bees Non-toxic to honeybees.

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13. DISPOSAL INFORMATION

Product : Wastes should dispose of with household waste. The remaining amount of waste must not poured to sewage canal. Hazardous waste should be disposed of according to control regulation.

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

14. TRANSPORT INFORMATION

ADR/RID/ADNR
UN-No. : 3082
Danger Signal : 9
Packaging Group : III



Property of the product : UN 3082 Environmental hazardous substance, liquid, N.O.S. (CONTAINS TRIADIMENOL)

IMDG
UN-No. : 3082
Class : 9
Packaging Group : III
See Pollutant : Yes
Property of the product : UN 3082 Environmental hazardous substance, liquid, N.O.S. (CONTAINS TRIADIMENOL)

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IATA

UN-No. : 3082

Class : 9

Packaging Group : III

Property of the product : UN 3082 Environmental hazardous substance, liquid, N.O.S. (CONTAINS TRIADIMENOL)

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:



Xn: Harmful



N: Dangerous for the environment

Hazardous Substances Found On The Label:

Containing Triadimenol

Risk Phrases

Physicochemical: -

Health:

R20 - Harmful by inhalation.

R22 - Harmful if swallowed.

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Environment:

R 52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

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

S 29 - Do not empty into drains

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:

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

16. OTHER INFORMATIONS

Xn: Harmful

N: Dangerous for the environment

Risk phrases mentioned in Section 2:

R10 - Flammable.

R 20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R38 - Irritating to skin.

R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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.

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Prepared By Remzican KARAN