

PRODUCT SAFETY DATA SHEET

SUBSTANCE / PREPARATION NAME

PROVOKE

Date of preparation	14/12/2015
Release Date	14/12/2015
MSDS No	FORM_MSDS_R&D_305_00
Renewal Date/No	14.07.2016

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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 : PROVOKE
Content : Proquinazid 200 g/L
Formulation Type : EC (Emulsion Concentrate)

Proquinazid

Cas No : 189278-12-4
EC No : -
FRAC : U7, U quinazolinone

1.2 Usage of Substance/Preparation

Fungicide

1.3 Firm Presentation of the Company:

Manufacturer and Licensee Company:

Company Name: AGRİ SCIENCES TARIM VE İLAÇÜR. SAN. TİC. LTD. ŞTİ.
Address : Bekir Saydam Caddesi No: 45 Pancar Torbalı / İZMİR
Telephone : +90 232 864 13 33
Fax : +9 0232 864 16 79

1.4 Emergency Telephone:

Please call +90 0232 864 13 33 or 114 (UZEM) in an emergency.

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2. INFORMATION ABOUT THE CONTENT/COMPOSITION :

Substance	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Proquinazid	200	189278-12-4	-	N	R50/53	N; R51/53
4-Methyl-1,3-dioxolan-2-one	250	108-32-3	203-572-1	Xi	R36	Xi; R36
Xylene	>500	1330-20-7	215-535-7	Xn, Xi	R10, R20/21, R38	R10, Xn; R20/21, Xi; R38
Others ²	-	-	-	-	-	-

- Descriptions about ¹R are given in chapter 16
- It's out of classification in that does not contain dangerous substances.

3. IDENTIFICATION OF HAZARDS:



Xn : Harmful



N: Dangerous for the environment

R10 : Flammable

R20/21: Harmful by inhalation and in contact with skin

R36 : Irritating to eyes

R38 : Irritating to skin

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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4. FIRST AID PRECAUTIONS:

SYMPTOMS OF POISONING: There is no defined symptom. General symptoms; Headache, nausea, fatigue.

FIRST AID MEASURES: In case contact the skin, take off dirty clothes and wash exposed skin with plenty of soapy water. In case of swallowed, do not regurgitate, Rinse him mouth with clean water, call a doctor. Shouldn't be given increase the absorption of substances such as oil, milk or alcohol. If the patient is blackout, have gone him out for fresh air, call a doctor. In case contact of eye, wash with plenty of water for 10-15 minutes, see a doctor.

ANTIDOTE AND REQUIRED INFORMATION: No specific antidote is known.

TREATMENT: In case of poisoning, symptomatic treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing matters: Water spray, foam, dry extinguishing media, carbon dioxide

Hazards: Formation of dangerous gases is taken into account in case of fire such as Carbon monoxide, hydrogen chloride, nitrogen oxides, organochlorine compounds.

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

Additional information: Do not breathe fumes of explosion and fire. In case of exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately from the product, do not allow to reach sewage or wastewater systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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6. ACCIDENTAL RELEASE PRECAUTIONS:

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

Spill / Leak :Sweep up spilled material in appropriate containers to collect and send destruction. Fill collected product in firmly closed containers. The collected material should be handled in accordance with Section 13.

Personal precautions: Use personal protective clothing. Avoid contact with the skin, eyes and clothes. Avoid formation of dust.

Environmental precautions: Do not discharge to subsoil / soil. Do not discharge to Drains / surface waters / groundwater.

Cleaning methods: For small pieces: Keep with dust binding material and dispose. For large pieces: Clean with mechanical methods. Avoid raising dust. Cleaning operations should be done while wearing breathing apparatus. Dispose of the material in accordance with regulations. Collect waste in suitable containers, labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations and clean.

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.

The storage temperature: 0-30° C

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid, clear
Color	: Yellow, brown
Odor	: Aromatic
Bulk Density	: 1,05-1,07 g/cm ³ (20 ⁰ C)
pH	: 6,2 ± 1 1% (20 ⁰ C)
Flash Point	: 38± 5 ⁰ C (Closed area)

10. STABILITY AND REACTION

Thermal decomposition: as prescribed / indicated decomposition if stored and handled.

Hazardous reactions: Strong acid and base.

Hazardous decomposition products: Predicted / hazardous decomposition products if stored and handled as specified

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11. TOXICOLOGICAL INFORMATION

Proquinazid Technical Substance:

Oral Acute oral LD₅₀ for male rats >5000 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rats >5000 mg/kg. Not a skin or eye irritant (rabbits). Not a skin sensitiser (guinea pigs).

Inhalation LC₅₀ (4 h) for rats >5.2 mg/l.

NOEL NOAEL (2 y) for rats 1.2 mg/kg b.w.

ADI/RfD (BfR) 0.01 mg/kg b.w. [2005]; (EC, proposed) 0.01 mg/kg b.w. [2006].

12. TOXICOLOGICAL INFORMATION

Proquinazid Technical Substance:

Birds Acute oral LD₅₀ for northern bobwhite quail >2250 mg/kg. Dietary LC₅₀ (5 d) for bobwhite quail and mallard ducks >5620 ppm.

Fish LC₅₀ (96 h) for rainbow trout 0.349, bluegill sunfish 0.454, sheepshead minnows >0.58 mg/l.

Daphnia EC₅₀ (48 h) 0.287 mg/l.

Algae EC₅₀ (72 h) for *Selenastrum capricornutum* >0.615 mg/l.

Other aquatic spp. LC₅₀ (96 h) for eastern oysters 0.219, mysid shrimps 0.11 mg/l. EbC₅₀ (14 d) for *Lemna gibba* >0.2 mg/l. (EC DAR).

Bees LD₅₀ (72 h, oral) 125 µg/bee; (72 h, contact) 197 µg/bee.

Worms LC₅₀ (14 d) for earthworms >1000 mg/kg soil.

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.

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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
Hazard Mark : 9
Packing Group : III
Product type : UN 3082 MATERIAL HARMFUL FOR ENVIRONMENT, LIQUID N.O.S (INCLUDES PROQUINAZID, 4-METHYL-1,3-DIOXOLAN-2-ONE and XYLENE)



IMDG

UN-No. : 3082
Hazard Mark : 9
Packing Group : III
Sea Pollutant : Yes
Product type : UN 3082 MATERIAL HARMFUL FOR ENVIRONMENT, LIQUID N.O.S (INCLUDES PROQUINAZID, 4-METHYL-1,3-DIOXOLAN-2-ONE and XYLENE)

IATA

UN-No. : 3082
Hazard Mark : 9
Packing Group : III

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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 PROQUINAZID, 4-METHYL-1,3-DIOXOLAN-2-ONE and XYLENE

Risk Phrases

R10 : Flammable

Health:

R20/21: Harmful by inhalation and in contact with skin

R36 : Irritating to eyes

R38 : Irritating to skin

Environment:

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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Safety Phrases:

- S1/2** : Keep locked up and out of the reach of children
- S9** : Keep container in a well-ventilated place
- S13** :Keep away from. Food, drink and animal feedstuffs
- S25** : Avoid contact with eyes
- S26** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S 36/37/39** : Wear suitable protective clothing, gloves and eye/face protection
- S43** : In case of fire use foam, carbondioxide or dust.
- S46** :If swallowed, seek medical advice immediately and show this container or label
- S56** :Dispose of this material and its container at hazardous or special waste collection point
- 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

N: DANGEROUS FOR THE ENVIRONMENT

Xi: IRRITANT

Xn: HARMFUL

Risk phrases mentioned in Section 2:

- R10 : Flammable
- R20/21: Harmful by inhalation and in contact with skin
- R36 : Irritating to eyes
- R38 : Irritating to skin
- R50/53: 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 criteria 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.