

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

PAREND

Date of Preparation	09/06/2011
Date of Issue	22/06/2011
MSDS No	FORM_MSDS_R&D_012_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 : PAREND
Product Content : TOLCLOFOS-METHYL 50%
Formulation Form : WP (WETTABLE POWDER)

Tolclofos-Methyl

Cas No : 57018-04-9
EC No : 260-515-3
FRAC CLASS : 14, F3 aromatic hydrocarbon: chlorophenyl/nitroaniline

1.2 Usage of the Material/Preparation:

Fungicide

1.3 Company Identification:

Manufacturing and 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

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	g/Kg	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Tolclofos-Methyl	50	57018-04-9	260-515-3	Xi, N	R43, R50/53	Xi; R43, N; R50/53
Others *	-					

- ¹ R explanations are under section 16.
- * Out of classification due to the fact that it does not include hazardous material.

3. HAZARD IDENTIFICATION



Xi: IRRITANT



N: DANGEROUS FOR THE ENVIRONMENT

R43 : May cause sensitivity in case contact with skin.

R50/53 : Too toxic for aquatic organisms and may cause long-term adverse effects in the aquatic environment.

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4. FIRST AID MEASURES

Poisoning Symptoms : Irritant to eye, nose, throat and skin, dizziness, headache, weakness, blurred vision, nausea.

First Aid Measures : Wash the contaminated parts of the body with plenty of water and soap. If pesticide or the contaminated seed are swallowed, puke the patient. In case of poisoning, call a doctor and take the package and label with you.

Antidote and Necessary Information : There is no specific antidote. The treatment is applied according to the symptoms. In case of slightly poisoning, apply ATROPIN SULPHATE and 2 PAM

5. FIRE FIGHTING MEASURES

Personal Protective Equipment for Fire-fighting: Do not inhale the fumes occurred during the explosion and fire. If available, use self-contained respiratory device during the fire

Dangers: Formation of hazardous gases during the fire must be considered.

Extinguishers: Foam, carbon dioxide, fire extinguishing powder.

Other Information: Move the product away from the fire area and cool the containers with water. If possible, use sand or soil after fire extinguishing 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. While handling with spilled product, do not eat, drink and smoke.

Clean-up Methods: Spilled material is collected with dust holder materials or suitable vacuum cleaner. Collect the material in 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 : Use the personal protective equipment stated in Section 8. Do not eat or drink while using. Prevent the contact with mouth, skin and eyes. Do not inhale. Wash your hands after using. Other security precautions are not required except of stated warnings during using the closed package. Use only in rooms, in which there is a locally aspirated device.

Storage : Store in the original container in dry, cool and well-ventilated places. Keep away from food, drink and animal feeds. Protect against direct sun light. Keep in the places where children cannot reach.

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 : Use respiratory apparatus 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.

Hygiene Measures: Do not eat, drink or smoke while handling the product. Wash your hands each time before eating, drinking, smoking or going to the toilet

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid, powder
Color : Beige
Odor : Slightly characteristic
pH : 4.0-8.0 10% (20°C)
Bulk Density : $0,25 \pm 0,05 \text{ g/cm}^3$
Water Solubility : Disperse

10. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme temperatures and direct sun light
Materials to be avoided : Alkali and acidic materials

11. TOXICOLOGICAL INFORMATION

Tolclofos Methyl Technical Material:

Acute Oral LD₅₀ (rat) 5000 mg/kg.

Skin and eye LD₅₀ rat >5000 mg/kg. Not irritant to skin and eyes (rabbit)

Inhalation LC₅₀ rat >3320 mg/m³.

NOEL (6 ay) dogs 600 ppm (50 mg/kg b.w.) (EPA).

ADI/RfD (EC) 0.064 mg/kg b.w. [2006]; (JMPR) 0.07 mg/kg b.w. [1994]; (EPA) 0.05 mg/kg b.w. [1992].

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

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12. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ mallard ducks and bobwhite quail >5000 mg/kg.

Fish LC₅₀ (96 hours) (bluegill sunfish) >720 µg/l.

13. DISPOSAL INFORMATION

Product : Do not dispose of the wastes with household wastes. Do not pour the remaining wastes to the sewage system. Dispose of them according to the Directive of Hazardous Waste Control.

Contaminated Materials: Do not use the empty packages for other products. Dispose the fully-discharged and shook packages in due form. Dispose of the non-cleaned packages as hazardous waste.

14. TRANSPORTATION INFORMATION

ADR/RID/ADNR

UN-No. : 3077

Hazard Mark : 9

Packing Group : III

Product type : UN 3077 MATERIAL HARMFUL FOR ENVIRONMENT, SOLID, N.O.S. (it does not include wastes) (Tolclofos Methyl)

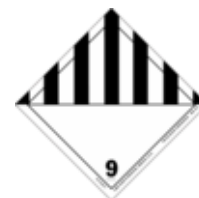
IMDG

UN-No. : 3077

Class : 9

Packing Group : III

Marine Pollutant : Yes



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UN-No. : 3077

Class : 9

Packing Group : III

Product type : UN 3077 MATERIAL HARMFUL FOR ENVIRONMENT, SOLID, N.O.S. (it does not include wastes) (Tolclofos Methyl)

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 The Environment

Hazardous Materials Listed on the Label: Includes Tolclofos Methyl

Risk Phrases:

Physicochemical: -

Health:

R43 : May cause sensitivity in case contract with skin.

Environment

R50/53 : Too toxic for aquatic organisms and may cause long-term adverse effects in the aquatic environment

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Safety Phrases:

- S1/2 : Lock it up and keep out of the reach of children.
S36/37 : Wear suitable protective clothes and gloves.
S24 : Avoid from contact with skin.
S46 : Contact a doctor if swallowed, show the container or label
S29 : Do not pour to sewage system.
S60 : Dispose of this material and its container as hazardous waste.
S61 : Avoid from release to environment. Refer to Special Usage Instruction/
Safety Data Sheet.

Important Labeling:

Follow instructions to avoid personal and environmental risks

Additional Information:

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

16. OTHER INFORMATION

Xi: Irritant

N: Dangerous for the environment

All Risk Phrases under Section 2:

- R43 : May cause sensitivity in case contract with skin.
R50/53 : Too toxic for aquatic organisms and may cause long-term adverse effects
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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.