

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

DELTAMITE

Date of Preparation	23/07/2015
Date of Issue	23/07/2015
MSDS No	FORM_MSDS_R&D_204_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 : DELTAMITE
Product Content : Deltamethrin 50 g/L
Formulation Form : SC (Suspension Concentrate)
Cas No : 52918-63-5
EC No : 258-256-6
IRAC : 3A-Pretroid

1.2 Usage of the Material/Preparation:

Insecticide

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name : AGRI SCIENCES TARIM VE ILAC UR. SAN. TIC. LTD. STI.
Address : BekirSaydamCaddesiPancar No: 31 Torbali / IZMIR
Telephone : +90 0232 864 13 33
Fax : +900232 864 16 79

1.4 Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33.

2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Deltamethrin	50 g/L	52918-63-5	258-256-6	T, N	R23/25, R50-53	Xn; R20 Xn; R22 N; R51/53
Others	Out of classification due to not including dangerous material					

- ¹ R explanations are under section 16.

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3. HAZARD IDENTIFICATION:



Xi: Irritant

R20

: Harmful by inhalation

R22

: Harmful if swallowed

R51/53

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



N: Harmful for environment

4. FIRST AID MEASURES:

Poison symptoms: A clear poison symptom has not been determined on human.

First Aid Measures: In case of contact with skin, wash with plenty of water. Take off contaminated clothes. In case of contact with eyes, wash with plenty of water for at least 15 minutes. Call a doctor. Take the label and package with you.

Antidote and Necessary Information: There is no antidote. Treatment is applied as per the symptoms.

5. FIRE FIGHTING MEASURES

Personal Protective Equipment during fight: Do not inhale the occurred gases during explosion and fire. Use air-independent respiratory mask during fire if possible.

Dangers: Consider the dangerous gases during the fire.

Extinguishers: Foam, carbon dioxide, extinguishing powder

Other Details: Take the product away from the fire point. Get cool the containers with water. If possible, use sand or earth after 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. Do not eat, drink or smoke while handling spilled product.

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Clean-up Methods: The poured material is collected with a liquid catcher material (for instance; sucking sand, sawdust, chemical binder). 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. The material should not be poured to sewage system or running water. If wastes contaminate the water, the authorized persons are informed.

Additional Precautions: Refer to Section 7 for safe handling instructions. Refer to Section 8 for personal protections equipment. Refer to Section 13 for disposal.

7. HANDLING AND STORAGE

Handling : Please use the personal protection equipment specified under 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 local sucking device.

Storage : Keep in original package in cool, dry and well ventilated places. Keep away from food and animal feed items. Keep away from direct sunlight. Keep against freezing. Keep it in places that 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 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

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Color : Yellow to beige
Odor : Odorless
Density : $1,04 \pm 0,05$ g/cm³ (20°C)
pH : $6,5 \pm 1$ (%1 solution)

10. KARARLILIK VE TEPKİME

11. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme degrees and direct sun light
Materials to be avoided : Keep away from strong acids and basis
Dangerous reaction : There is no dangerous reaction in appropriate storage and usage. Toxic and irritant vapors may occur due to fire and thermal degradation. It is resistant in mentioned storage conditions. No dangerous polymerization products.

12. TOXICOLOGICAL INFORMATION

Oral Acute oral LD₅₀ for rats ranges from 87 to >5000 mg/kg, depending upon carrier and conditions of the study; for dogs >300 mg/kg. **Skin and eye** Acute percutaneous LD₅₀ for rats and rabbits >2000 mg/kg. Non-irritating to skin; mild eye irritant (rabbits). **Inhalation** LC₅₀ (6 h) for rats 0.6 mg/l air (whole body, particulate). **NOEL** (2 y) for mice 16, rats 1, dogs 1 mg/kg b.w. **ADI/RfD** (EC) 0.01 mg/kg b.w. [2003]; (JMPR) 0.01 mg/kg b.w. [2000]; (EPA) 0.01 mg/kg b.w. [1987]. **Water GV** Excluded from GV derivation (U). **Other** Non-mutagenic and non-teratogenic (mice, rats, rabbits).

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13. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ for bobwhite quail >2250 mg/kg. Dietary LC₅₀ (8 d) for bobwhite quail >5620 mg/kg diet. NOEL for reproduction for bobwhite quail 55, mallard ducks 70 mg/kg daily. **Fish** Toxic to fish under laboratory conditions; LC₅₀ (96 h) for rainbow trout 0.91, bluegill sunfish 1.4 µg/l. Not toxic to fish under natural conditions.

Daphnia LC₅₀ (48 h) 0.56 µg/l. **Algae** EC₅₀ (96 h) for *Selenastrum capricornutum* >9.1 mg/l. **Bees** Toxic to bees; LD₅₀ (oral) 23 ng/bee; (contact) 12 ng/bee. Low LD₅₀ values under laboratory conditions do not represent a significant hazard to bees in normal field use. **Worms** LC₅₀ (14 d) for earthworms >1290 mg/kg soil.

14. 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.

15. TRANSPORTATION INFORMATION

ADR/RID/ADNR

UN-No. : 3082

Hazard Mark: 9

Packing Group : III

Product type : UN3082 ENVIRONMENTAL HARMFUL MATERIAL, LIQUID N.O.S. (INCLUDES DELTAMETHRIN)

IMDG

UN-No. : 3082

Class : 9

Packing Group : III

EMS :

Marine Pollutant : Yes



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UN-No. : 3082

Class : 9

Packing Group : III

Product type :UN 3082 ENVIRONMENTAL HARMFUL MATERIAL, LIQUID N.O.S. (INCLUDES DELTAMETHRIN)

16. 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

Includes Deltamethrin

Risk Phrases:

Physicochemical:-

Health :

R20 : Harmful by inhalation

R22 : Harmful if swallowed

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 it locked and a place where children cannot reach
S9 : Keep container in a well-ventilated place
S13 :Keep away from food, drink and animal feed
S46 : If swallowed, call a doctor. Show the container or label
S56 : Dispose of this material and its container dangerous or special waste collection areas.

Important Labeling:

Follow instructions to avoid personal and environmental risks.

17. OTHER INFORMATION

N :Dangerous for Environment
Xi :Irritant
Xn : Harmfull
T : Toxic

All Risk Phrases under Section 2:

R10 : Flammable
R20 : Harmful by inhalation
R22 : Harmful if swallowed
R23/25 : Toxic by inhalation and if swallowed
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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Prepared by : Remzi Can Karan

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.