

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

AGRISAVE

Date of Preparation	17/05/2011
Date of Issue	18/05/2011
MSDS No	FORM_MSDS_R&D_005_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 : AGRISAVE
Product Content : Propamocarb Hydrochloride 722 g/L
Formulation Form : SL (WATER-SOLUBLE CONCENTRATE)
Cas No : 25606-41-1
EC No : 247-125-9
FRAC : 28, F4 carbamate fungicide

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.

2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Propamocarb Hydrochloride	722	25606-41-1	247-125-9	Xi, N	R43,R52	Xi; R43
Diethylene glycol	65	111-46-6	203-872-2	Xn	R22	-

- ¹ R explanations are under section 16.

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3. HAZARD IDENTIFICATION:



Xi: Sensitizer

R43 : Make sensitive in case of contact with skin.

4. FIRST AID MEASURES:

Poison symptoms: Headache, drowsiness, weakness, blackout and fever.

First Aid Measures: Call a doctor in case of poisoning. Take package and label of the pesticide with you. Take the patient away from the contaminated place. Take off the contaminated clothes. In case of contaminating the skin and eye, wash the body part with plenty of water and soap. If swallowed, puke the patient with salty water.

Antidote and Treatment: ATROPIN SULPHAT is used if swallowed as much as the pesticide prevents cholinesterase. If swallowed in small amount, symptomatic treatment will be enough for the patient.

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5. FIRE FIGHTING MEASURES

Appropriate Extinguisher Materials: The product is not flammable. The extinguishing precautions must be taken for environment flames.

Protective equipment in firefighting: Use air-independent respiratory mask during fire if possible. Wear protective gloves.

Other Details: Get cool the containers, possible to cause harm, with sprayed 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.

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.

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.

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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. Storage temperature 0-30 °C

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 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 : Liquid, clear

Color : Colorless

Odor : Odorless

Density : 1,100 g/cm³ (20⁰C)

pH : 5-9 5% (20⁰C)

Flashing Point : Not flammable.

10. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme degrees and direct sun light

Materials to be avoided : None

Dangerous reaction : There is no dangerous reaction in appropriate storage and usage. It is resistant in mentioned storage conditions.

11. TOXICOLOGICAL INFORMATION

Propamocarb Hydrochloride Technical Material:

Acute Oral LD₅₀ Rat 2000-2900 mg/kg

Acute Oral LD₅₀ Mouse 2650-2800 mg/kg

Acute Oral LD₅₀ Dog 1450 mg/kg

Skin and Eye : Acute Percutaneous LD₅₀ rat and rabbit > 3000 mg/kg

Inhalation : Rat LC₅₀ >5,54 mg/l air (4 hours)

NOEL : (2y) Mouse 26-32 mg/kg b.w

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LOEL : (2y) Dog 1000 ppm (33,3 mg/kg b.w.)

ADI/RfD (JMPR): 0,4 mg/kg b.w. [2005-2006], (EC) 0.29 mg/kg b.w. [2007]; (EPA) cRfD 0,11 mg/kg b.w.[1995].

Others : Negative in tests of Ames and micronucleus. Not teratogenic on rats and rabbits. There is no reproduction, growing or carcinogenic effects.

Toxicity Class: WHO (a.i.) U, EPA Formulation IV

12. ECOLOGICAL INFORMATION

Propamocarb Hydrochloride Technical Material:

Birds : Acute Oral LD₅₀ >1842 mg/kg Bobwhite quail and mallard duck

LC₅₀ > 962 mg/kg diet Bobwhite quail and mallard duck

Fish : LC₅₀ (96 h) Bluegill sunfish >92, Rainbow trout >99 mg/l.

Daphnia LC₅₀ (48 hours) 106 mg/l.

Algae E_rC₅₀ (72 saat) (*Pseudokirchneriella subcapitata*) > 85 mg/l; E_bC₅₀ > 120 mg/l

Bee : LD₅₀ (oral) 89 µg/bee LD₅₀ (effect) 100 µg/bee

Worm : LC₅₀ (14 days) >660 mg/kg earth.

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13. 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.

14. TRANSPORTATION INFORMATION

It is not in dangerous material class from the point of transport

ADR/RID/ADNR

UN-No. :-

Hazard Mark :-

Packing Group :-

Product type :-

IMDG

UN-No. :-

Class :-

Packing Group :-

EMS :-

Marine Pollutant :-

Product Type :-

IATA

UN-No. :-

Class :-

Packing Group :-

Product Type :-

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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: Sensitizer

Hazardous Materials Listed on the Label

Includes Propamocarb Hydrochloride.

Risk Phrases:

Physicochemical : -

Health : R43 : May make sensitive in case of skin contact.

Environment : -

Safety Phrases:

S 24 : Avoid contacting with skin.

S 36/37 : Use appropriate protective clothes, gloves

Important Labeling:

Follow instructions to avoid personal and environmental risks.

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Additional Information:

Toxicity Class: WHO (a.i.) U, EPA Formulation IV.

16. OTHER INFORMATION

Xi: Sensitizer

Xn: Harmful

N: Dangerous for Environment

All Risk Phrases under Section 2:

R22: Harmful in case of swallowed.

R43: Make sensitive in case of contact with skin.

R52: Harmful for aquatic organisms.

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.