

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

CASPERTIN

Date of Preparation	25/05/2011
Date of Issue	26/05/2011
MSDS No	FORM_MSDS_R&D_007_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 : CASPERTIN
Product Content : CYMOXANIL 50%
Formulation Form : WP (Wettable Powder)

Cymoxanil

Cas No : 57966-95-7
EC No : 261-043-0
FRAC Class : 27, U cyanoacetamide oxime

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:

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Material	%	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Cymoxanil	50	57966-95-7	261-043-0	Xn; N	R22, R43, R50, R53	Xn; R22, R43, N; R50, R53
Others*	-					

- R explanations are under section 16.
- *Outside classification due to absence of hazardous material.

3. HAZARD IDENTIFICATION:



Xn: HAZARDOUS



N: DANGEROUS FOR THE ENVIRONMENT

- R22 : It is harmful in case of swallow
R43 : It may cause sensitivity when contact with skin.
R50 : Toxic to aquatic organisms
R53 : It may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES:

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Poisoning indicators:

Drowsiness, headache, weakness and sweating

First Aid Measures:

In case of poisoning, take the following precautions, call a doctor, take the pesticide package and label with you. In case of contact, wash the skin with water. If swallowed, puke. In case of inhale, take the patient away from the contaminated place.

Antidote: There is no specific antidote. The treatment is applied according to the symptoms Active materials whose chemical group was stated in part 2: Cyanoacetamide oxime (Cymoxanil).

5. FIRE FIGHTING MEASURES

Personal protection equipment for fire fighting: Do not inhale the gases occurred during the explosion and fire. If possible use air-independent respiratory masks.

Hazards: Consider the hazardous gases come out during the fire.

Extinguishers: Foam, Carbon dioxide, fire extinguishing powder.

Other Information: Move the product away from the fire place, cool the containers using water. If possible, use sand and soil after the fire extinguishing liquid.

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 dust catcher material or an appropriate vacuum. Place the product into tight plastic containers and keep safely until it

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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 : Keep away from acids. 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 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.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid, powder
Colour : Beige
Odour : Lightly Characteristic
pH : 5.0-7.0 1% (20⁰C)
Water solubility : Dispers

10. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme degrees and direct sun light
Materials to be avoided : It is possible occuring carbone sulphur and hydro sulphur with acids.

11. TOXICOLOGICAL INFORMATION

Cymoxanil Technical Material:

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Acute oral LD₅₀ rat 760 mg/kg LD₅₀ female rat 1200 mg/kg

Eye and skin Acute percutaneous LD₅₀ rabbit >2000 mg/kg (It is not irritant to eyes. It may create light sensitivity for skin. – rabbit)

Inhalation LC₅₀ (4h) rat >5,06 mg/L

NOEL (2y) male rat 4,1 mg/kg; female rat 5,4 mg/kg; male mouse 4,2 mg/kg; female mouse 5,8 mg/kg; dog 3,0 mg/kg b.w. daily.

ADI/RfD (EC) 0.013 mg/kg b.w. [2008]; (BfR) 0.03 mg/kg b.w. [2006]; (EPA) RfD 0.013 mg/kg [1998].

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

12. ECOLOGICAL INFORMATION

Cymoxanil Technical Material:

Birds : Acute Oral LD₅₀ >2250 mg/kg Quail & Duck (bobwhite quail and mallard ducks) Dietary LC₅₀ (8 d) (bobwhite quail and mallard ducks) >5620 mg/kg diet

Fish : LC₅₀ (96 hours) Rainbow trout 61 mg/l, bluegill sunfish 29 mg/L, common carp 91mg/L, sheepshead minnows >47.5 mg/l.

Daphnia LC₅₀ (48 hours) 27 mg/L.

Algae EC₅₀ (5 days) 1,21 mg/l (Selenastrum capricornutum), EC₅₀ 231 ppb (Anabaena flos-aquae)

Bee : It is not toxic for bees. LD₅₀ (48 hours, effect) > 25 µg /bee, LC₅₀ (48 hours, oral)>1000 ppm.

Worm : LD₅₀ (14 days) >2208 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

ADR/RID/ADNR

UN-No. : 3077

Hazard Mark : 9

Packing Group : III

Product type : UN 3077 Hazardous for Environment, Solid, N.O.S. (Not Including wastes)(Includes Cymoxanil)

IMDG

UN-No. : 3077

Class : 9

Packing Group : III

Marine Pollutant : Yes

Product Type : UN 3077 Hazardous for Environment, Solid, N.O.S. (Not Including wastes)(Includes Cymoxanil)

IATA

UN-No. : 3077

Class : 9

Packing Group : III

Product Type : UN 3077 Hazardous for Environment, Solid, N.O.S. (Not Including wastes)(Includes Cymoxanil)



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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:



Xn: Harmful

N: Harmful for Environment

Hazardous Materials Listed on the Label

Includes Cymoxanil

Risk Phrases:

Health :

R22 : Harmful if swallowed.

R43 : It may cause sensitivity in case of contact with skin.

Environment :

R50 : Too toxic to aquatic organisms.

R53 : It may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S1/2 : Lock it up and keep out of the reach of children.

S22 : Do not inhale its powder.

S24 : Avoid contacting with skin.

S36/37 : Use appropriate protective clothes, gloves.

S46 : Contact a doctor if swallowed, show the container or label.

S29 : Do not pour to sewage system.

S56 : Dispose this material and its container in dangerous and special waste collecting places.

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S 61 : Avoid releasing into the environment. Apply Special Usage Instructions / Security Data Sheet.

Important Labelling:

Follow instructions to avoid personal and environmental risks.

Additional Details:

Cymoxanil: WHO (a.i.) III; EPA (formulation) III

16. OTHER INFORMATION

N: Dangerous for the environment

Xn: Harmful

All Risk Phrases under Section 2:

R22 : Harmful if swallowed.

R43 : It may cause sensitivity in case of contact with skin.

R50 : Too toxic to aquatic organisms.

R53 : It may cause long-term adverse effects in the aquatic environment.

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.