

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

VALTERA

Date of Preparation	17/02/2013
Date of Issue	17/02/2013
MSDS No	FORM_MSDS_R&D_092_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 : VALTERA
Product Content : CYPRODINIL 37,5 %+FLUDIOXANIL 25 %
Formulation Form : WG (water soluble Granule)

CYPRODINIL

Cas No : 121552-61-2
EC No :-
IRAC : 9, DI anilinopyrimidine

FLUDIOXANIL

Cas No : 131341-86-1
EC No :-
IRAC : 12, E2 phenylpyrrole

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/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Cyprodinil	37,5	121552-61-2	-	Xi, N	R43, R51/53	Xi; R43, N;R51/53
Fludioxanil	25	131341-86-1	-	N	R51/53	N;R51/53
Others*	Outside classification due to absence of hazardous material.					

- R explanations are under section 16.

3. HAZARD IDENTIFICATION:



Xi: Irritant



N: Dangerous For the Environment

R43 : It may irritate in case of contact with skin.

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

The product has been 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).

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4. FIRST AID MEASURES:

Symptoms of Poisoning: General poisoning symptoms can be seen.

First Aid Measures: If feel discomfort, quit immediately. In case drug contacts with the eye, wash with slow flowing water for 10-15 minutes by opening the eyelid. If drug is swallowed, do not vomit the patient. If necessary, take the patient with medication packaging to doctor immediately. If drug is inhaled, remove to fresh air immediately.

NOTE: Be not given anything to unconscious patient.

Antidote and Necessary Information: There is no special antidote. Treatment is applied according to the symptoms.

5. FIRE FIGHTING MEASURES

Personal Protective Equipment: Do not inhale the fumes occurred during the explosion or fire. If available, use air-independent respiratory mask during the fire.

Dangers: Consider the dangerous fumes such as carbon monoxide (CO), nitrogen oxide (NO_x) and occurred during the fire.

Extinguishers: Foam, CO₂, fire extinguishing powder.

Other Details: Take the product away from fire place. Cool the containers with water. If available, use earth or sand after using 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. Do not eat, drink or smoke while handling spilled product.

Clean-up Methods: The poured material is collected with a liquid catcher material or suitable vacuum cleaner. 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.

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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 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 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, granule
Color : beige brown
Odor : Light characteristic
pH : 7-12 1 % (20 °C)
Soluble in water : Disperse

10. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme degrees and direct sun light
Dangerous reaction : There is no dangerous reaction in appropriate storage and usage.
Dangerous Decomposition Products: There is no dangerous reaction in appropriate storage and usage.

11. TOXICOLOGICAL INFORMATION

Cyprodinil Technical Material:

Acute Oral LD₅₀ female and male rat >2000 mg/kg

Eye and skin Acute Dermal LD₅₀ female and male rat >2000 mg/kg. It is not irritant to eyes and skin (rabbit). It can get irritation on the skin. (Guinea Pigs)

Inhalation LC₅₀ (4 h) female and male rat >1200 mg/m³.

NOEL NOAEL (2 years) female and male rat 3 mg/kg b.w. daily, (1,5 years) mouse 196 mg/kg b.w. daily, (1 years) dogs 65 mg/kg b.w. daily.

ADI/RfD 0.015 mg/kg b.w. [2003, 2006]; (EPA) RfD 0.0375 mg/kg [1998]. Others is not mutagenic, teratogenic and oncogenic.

toxicity class WHO (a.i) III (firm classification); EPA (formulation) III, IV.

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Fludioxanil Technical Material:

Acute Oral LD₅₀ female and male rat and mouse >5000 mg/kg

Eye and skin Acute Percutan LD₅₀ female and male rat >2000 mg/kg. It is not irritant to eyes and skin.

Inhalation LC₅₀ (4 h) female and male rat >2600 mg/m³ air.

NOEL NOAEL (2 years) female and male rat 40 mg/kg b.w. daily, (1,5 years) mouse 112 mg/kg b.w. daily, (1 years) dogs 3.3 mg/kg b.w. daily.

ADI/RfD (JMPR) 0.4 mg/kg b.w. [2004, 2006]; (EC) 0.37 mg/kg [2007].(EPA) 0.03 mg/kg b.w. [1995]. Others is not mutogenic, teratogenic and oncogenic.

Toxicity class WHO (a.i) U (firm classification).

12. ECOLOGICAL INFORMATION

Cyprodinil Technical Material:

Birds Acute Oral LD₅₀ mallard ducks >500 mg/kg.

Diet toxicite mallard duck and bobwhite quail > 5200 ppm.

Fish LC₅₀ (96 hours) rainbow trout 2.41 mg/l, bluegill sunfish 2.17 mg/l (static) and 3.2 mg/l (with flow).

Daphnia EC₅₀(48 h) > 0.033 mg/l.

Algae E_bC₅₀ (72 h) *Pseudokirchnerella subcpitata* 2.6 mg/l

Bee LD₅₀ (48 h oral and contact) >100 µg /bee

Fludioxanil Technical Material:

Birds LD₅₀ mallard ducks and bobwhite quail >200 mg/kg. Mallard ducks and bobwhite quail > 5200 ppm.

Fish LC₅₀ (96 hours) bluegill sunfish 0.74, catfish 0.63, common carp 1,5, rainbow trout 0.23 mg/l.

Algae EC₅₀(72 h) *Scenedesmus subspicatus* 0.93 mg/l; E_bC₅₀ *Selenastrum capricornutum* 0.025 mg/l.

Bee is not toxic; LD₅₀ (48 h oral and contact) >100 µg /bee

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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 HARMFUL SUBSTANCE TO ENVIRONMENT, SOLID, N.O.S. (DO NOT INCLUDE WASTES) (CYPRODINIL AND FLUDIOXINAL MIXTURE)

IMDG

UN-No. : 3077

Class : 9

Packing Group : III

Marine Pollutant : Yes

Product Type : UN 3077 HARMFUL SUBSTANCE TO ENVIRONMENT, SOLID, N.O.S. (DO NOT INCLUDE WASTES) (CYPRODINIL AND FLUDIOXINAL MIXTURE)

IATA

UN-No. : 3077

Class : 9

Packing Group : III

Product Type : UN 3077 HARMFUL SUBSTANCE TO ENVIRONMENT, SOLID, N.O.S. (DO NOT INCLUDE WASTES) (CYPRODINIL AND FLUDIOXINAL MIXTURE)



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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: Irritant



N: Dangerous For the Environment

Hazardous Materials Listed on the Label

Includes Cyprodinil and Fludioxinil

Risk Phrases:

Physicochemical: -

Health :

R43 : It may irritate in case of contact with skin.

Environment :

R51/53 : Toxic to aquatic organisms, 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.

S13 : Keep away food, drinks and animal feeds.

S20 : Do not eat and drink in case of using.

S24 : Avoid contacting with skin.

S29 : Do not empty into drains

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

S46 : Apply to doctor immediately in case of swallowing, show container and label.

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S56: Dispose of this material and its container at hazardous or special waste collection point.

Important Labeling:

Follow instructions to avoid personal and environmental risks.

Additional Information

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

16. OTHER INFORMATION

Xi : Irritant

N : Harmful for environment

All Risk Phrases under Section 2:

R43 : It may irritate in case of contact with skin

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

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Prepared By : Secil CANAYAKIN

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.