

MATERIAL SAFETY DATA SHEET

SUBSTANCE / PREPARATION NAME

TORRENT

Date of preparation	23/07/2015
ReleaseDate	23/07/2015
MSDS No	FORM_MSDS_R&D_200_00
RenewalDate/No	

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1. DEFINITION OF SUBSTANCE/PREPARATION AND COMPANY/ BUSINESS OWNER:

1.1 Substance/ Presentation Of The Preparation:

Product Name : **TORRENT**
Content : Cymoxanil 4,2% + Copper Salt (Copper Oxychlorure) 39,75%
Formulation Type : DF (Dry Flowable)

Cymoxanil

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

Copper Salt (Copper Oxychlorure)

Cas No : 1332-40-7
EC No : 215-572-9
FRAC : M1, M multi-site: inorganic

1.2 Usage of Substance/Preparation:

Fungicide

1.3 Firm Presentation of the Company:

Manufacturer and Licensee Company:

Company Name : AGRİ SCIENCES TARIM VE İLAÇ ÜR. SAN. TİC. LTD. ŞTİ.
Address : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR
Telephone : +90 0232 864 13 33
Fax : +90 0232 864 16 79

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1.4 Emergency Telephone:

Please call +90 0232 864 13 33 in an emergency.

2. INFORMATION ABOUT THE CONTENT/COMPOSITION:

Substance	%	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Copper Oxychlorure	39,75	1332-40-7	215-572-9	Xn; N	R20, R22, R50/53	Xn; R20, R22, N; R50/53
Cymoxanil	4,2	57966-95-7	261-043-0	Xn; N	R22, R43, R50/53	Xn; R43, N; R50/53
Diğerleri	It's out of classification in that does not contain dangerous substances.					

- Descriptions about R¹ are given in chapter 16

3. IDENTIFICATION OF HAZARDS:



Xn: Harmful



N: Dangerous for the environment

R 20/22 - Harmful by inhalation and if swallowed.

R43 - May cause sensitisation by skin contact.

R50/53: May cause long-term adverse effects in aquatic environments.

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4. FIRST AID PRECAUTIONS:

Poisoning Symptoms: Gastrointestinal irritation, paresthesias, diarrhea, headache, weakness and sweating.

Eye Contact: Wash eyes with plenty of water for 15 min. Consult an eye specialist.

Skin contact: Wash off with soap and water.

If inhaled: Move patient to fresh and well-ventilated area, call a doctor.

If swallowed: If patient is not unconscious, the mouth should be rinsed, do not puke.

Antidote and required information: There is no special antidote. Symptomatic treatment is applied.

5. FIRE-FIGHTING MEASURES

Required Personal Protective Equipment in Aid: Do not breathe fumes of explosion and fire. If possible, use self contained breathing apparatus during fire. Black smoke can be occurred since product contains flammable organic

Hazards: Formation of dangerous gases as carbon oxide (CO), nitrogen oxides (NO_x) is taken into account in case of fire.

Fire extinguishers: Remove the product from fire areas, cool containers with water. If possible, use sand or earth after fire fighting water.

6. ACCIDENTAL RELEASE PRECAUTIONS:

General Information: Use personal protection devices, specified in section 8.

Spillage and Leakage: Spilled material should be collected by sweeping and filled the disposal into suitable containers. Collected materials should be handled in accordance with Section 13.

Personal Alerts: Avoid contact with spilled product or contaminated areas. Do not eat, drink or smoke when dealing with spilled product. Avoid dust formation.

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The Cleaning Process: The product is collected with dust retaining material. Substance collected into hard plastic container and stored in a secure way until to be destroyed. Contaminated substances, cleaned according to environmental and ground instructions. The product flowing to drains or sewers is blocked. If waste is mixed with water, it is reported to the authorities.

Additional Measures: Look section 7 for safe use, section 8 for personal protective equipment. Look section 13 for disposal

7. HANDLING AND STORAGE

Handling : Use personal protective equipments specified in section 8. Avoid contact with skin and eyes. Do not breathe it. Wash your hands after usage. Avoid high temperature because of the thermal degradation.

Storage : Store in original container in a cool, dry and well-ventilated place. Keep away from foods, drink and animal feed stuffs. Protect from direct sunlight. Protect against freezing.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Precautions: Keep the substance concentration below the allowable limits by providing the appropriate general or regional ventilation.

Personal Protective Equipment:

Eye : Use safety glasses according to EN 166.

Skin : Use protective clothing and suitable gloves. If possible, use 2 layers of clothing. Use CE marked Nitrile rubber gloves (min 0,40 mm thick). Wash contaminated gloves. Dispose of the not cleanable gloves.

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Respiration : Use breathing apparatus according to EN 149:2001. Breathing apparatus only used in short-term work store reduce the risk, for example, in local ventilations. Warning instructions prepared by manufacturers about respiratory protection apparatus must be followed.

Good Hygiene Conditions: Do not eat, drink or smoke while handling the product. Make sure to wash your hands each time before eating, drinking, smoking or going to the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid, Granule
Color : Blue
Odor : Light Characteristic
pH : 5-9 % 10(20⁰C)
Solubility : Dispersible

10. STABILITY AND REACTION

Conditions to avoid : Direct sunlight. Exothermically degradable and flammable at extreme temperatures.

Hazardous reactions : When stored and handled appropriately no hazardous reactions are observed.

Hazardous Decomposition Products: When stored and handled appropriately no hazardous decomposition products are observed.

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11. TOXICOLOGICAL INFORMATION

Copper oxy chloride Substance:

Oral Acute oral LD₅₀ for rats 950–1862 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rats >2000 mg/kg.

Inhalation LC₅₀ (4 h) 2.83 mg/l.

NOEL 16–17 mg Cu/kg b.w. daily.

ADI/RfD (JECFA evaluation) copper compounds 0.5 mg/kg [1982]; (WHO) 0.5 mg/kg [1998]; (EC) 0.15 mg Cu/kg b.w. [2007].

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

Cymoxanil

Oral Acute oral LD₅₀ for rats >5000 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rats >10 000, rabbits >5000 mg/kg. No irritation to skin (rabbits); eye irritation Category III (EPA classification). No dermal sensitisation in Buehler test; may cause dermal sensitisation in guinea pig maximisation test.

Inhalation LC₅₀ (4 h) for rats >5.14 mg/l.

NOEL Chronic NOAEL (2 y) for rats 4.8 mg/kg b.w. daily. Ethylenethiourea chronic NOAEL (2 y) for rats 0.37 mg/kg b.w. daily. Below parentally toxic levels, mancozeb was observed to have no effect on reproduction, on neonatal survival, or on growth or development.

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12. ECOLOGICAL INFORMATION

Copper oxy chloride Substance:

Birds Dietary LC₅₀ (8 d) for bobwhite quail 167.3 mg Cu/kg b.w. daily.

Fish LC₅₀ (96 h) for rainbow trout 0.217 mg Cu/l.

Daphnia LC₅₀ (48 h) 0.29 mg Cu/l.

Algae E_bC₅₀ 56.3 mg Cu/l; E_rC₅₀ >187.5 mg Cu/l.

Bees LD₅₀ (oral) 18.1 µg Cu/bee; (contact) 109.9 µg Cu/bee.

Worms LC₅₀ (14 d) >489.6 mg/kg soil.

Cymoxanil

Birds Acute oral LD₅₀ for bobwhite quail and mallard ducks >2250 mg/kg. Dietary LC₅₀ (8 d) for bobwhite quail and mallard ducks >5620 mg/kg diet.

Fish LC₅₀ (96 h) for rainbow trout 61, bluegill sunfish 29, common carp 91, sheepshead minnows >47.5 mg/l.

Daphnia LC₅₀ (48 h) 27 mg/l.

Algae EC₅₀ (5 d) for *Selenastrum capricornutum* 1.21 mg/l; EC₅₀ for *Anabaena flos-aquae* 231 ppb.

Other aquatic spp. LC₅₀ (96 h) for eastern oysters >46.9, mysid shrimps >44.4 ppm.

Bees Not toxic to bees; LD₅₀ (48 h, contact) >25 µg/bee; LC₅₀ (48 h, oral) >1000 ppm.

Worms LC₅₀ (14 d) >2208 mg/kg soil.

13. DISPOSAL INFORMATION

Product: Wastes should be disposed of with household waste. The remaining amount of waste must not be poured into a sewage canal. Hazardous waste should be disposed of according to control regulations.

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Contaminated Packing: Empty containers should be used for other products. Completely emptied and shaken containers must properly disposed. Uncontaminated packaging should be disposed of as hazardous waste.

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-No. : 3077
DangerSignal : 9
PackagingGroup : III



Property of the product : UN 3077 Environmental hazardous substance, solid N.O.S. (waste free) (CONTAINS COPPER OXY CHLORIDE AND CYMOXANIL)

IMDG

UN-No. : 3077
Class : 9
PackagingGroup : III
SeaPollutant : Yes

Property of the product : UN 3077 Environmental hazardous substance, solid N.O.S. (waste free) (CONTAINS COPPER OXY CHLORIDE AND CYMOXANIL)

ADR/RID/ADNR

UN-No. : 3077
DangerSignal : 9
PackagingGroup : III

Property of the product : UN 3077 Environmental hazardous substance, solid N.O.S. (waste free) (CONTAINS COPPER OXY CHLORIDE AND CYMOXANIL)

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15. REGULATORY INFORMATION

This form is based on SAFETY DATA FORMS AND REGULATION ABOUT THE PREPARATION AND DISTRIBUTION OF HAZARDOUS SUBSTANCES (dated 26/12/2008 and 27092 numbered).

Hazard Signal and Symbol:



Xn: Hazardous



N: Dangerous for the environment

Hazardous Substances Found On The Label:

Contains Copper oxy chloride, and cymoxanil.)

Risk Phrases

Health:

R 20/22 - Harmful by inhalation and if swallowed.

R43 - May cause sensitisation by skin contact.

Environment:

R50/53: May cause long-term adverse effects in aquatic environments.

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Safety Phrases:

- S1/2 : Keep out of reach of children
S13 : Keep away from food, drink and animal feed stuffs
S 24 : : Avoid contact with skin
S 29 : Do not empty into drains.
S 36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S 46 : If swallowed, seek medical advice immediately and show this container or label
S 56 : Remove this material and its jar in special waste collection point.

Important Labeling:

To avoid from risks to man and environment, comply with the instruction of use.

16. OTHER INFORMATIONS

- Xn** : Harmful
N : Dangerous for the environment

Risk phrases mentioned in Section 2:

R 20/22 - Harmful by inhalation and if swallowed.

R43 - May cause sensitisation by skin contact.

R50/53: May cause long-term adverse effects in aquatic environments.

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Prapared By : Remzican KARAN

This security information form is additional to manufacturer firm's instructions, however does not replace within structions. This form contains regulation criteria for preparation of security form preparation. This form is based on safety data forms and regulation about the preparation and distribution of hazardous substances (dated 26/12/2008 and 27092 numbered). Please, the relevant institutions and individuals act according to this regulation.