

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

LAMPRIS

Date of Preparation	28/07/2015
Date of Issue	28/07/2015
MSDS No	FORM_MSDS_R&D_233_00
Renewal Date/No	-

Sayfa No: 1/7

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. IDENTIFICATION OF THE MATERIAL AND COMPANY

1.1 Material/Preparation Identification:

Product Name : LAMPRIS
Product Content : Copper Hydroxide 555 g/l (361,1 g/L metallic copper equivalent)
Formulation Form : SC(SuspensionConcantrate)

BAKIR HİDROKSİT

Cas No : 20427-59-2
EC No : 243-815-9
FRAC : M1, M multi-site: inorganic

1.2 Usage of the Material/Preparation:

Fungicide

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name : AGRI SCIENCES TARIM VE İLAÇÜR. SAN. TİC. LTD. ŞTİ.
Address : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR
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
BakırHidroksit	555	20427-59-2	243-815-9	N	R50/53	N; R50/53
Others	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

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3. HAZARDS IDENTIFICATION:



N: DANGEROUS FOR THE ENVIRONMENT

R50/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES:

Poisoning indicators: Rapid breathing, irritability, bloody diarrhea, anxiety, blurred vision, dizziness, headache, green-blue colour vomiting, runny nose, metallic taste in the mouth, the water and electrolyte loss, fatigue.

First Aid Measures: Take first aid measures below immediately following poisoning and call a doctor. Bring the pharmaceutical package and label together. Hold eyelids open in case infected with the eyes and rinse with water for fifteen minutes. Remove the patient from pesticide area and apply artificial respiration. If ingested through the mouth, make the patient drink plenty of milk, egg whites, gelatine solution. If you don't have these, make the patient drink plenty of water to make him/her vomit.

Antidote and Required Information: There is no special antidote. Stomach is washed with activated charcoal. Plasma and Novadrol is given in order to help the blood stream.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, alcohol-resistant foam, carbon dioxide (CO₂) and sand.

Specific hazards may occur during fire fighting

Carbon monoxide (CO)

Special protective equipment for fire-fighters

Do not breathe fumes during fire/explosion

In case of fire, use mask with oxygen tube.

Additional Information:

Take control of the fire area against the spreading.

Avoid the mixing of fire extinguishing water to water pipes.

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6. ACCIDENTAL RELEASE MEASURES

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

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

The Cleaning Process: The product is collected with liquid retaining material (such as peat, sawdust, chemical binder. Substance collected into hard plastic containers and stored in a secure way until to destroy. Contaminated substances, cleaned according to environment 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 Precautions: Look at section 7 for safe use. Look at section 8 for personal protective equipment. Look at section 13 for disposal.

7. HANDLING AND STORAGE

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.

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

Hygiene Precautions: Do not eat, drink or smoke during usage. Wash your hands every time before going to the toilet, eating, drinking and smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: : Liquid
Color : Green - Blue
Odor : Slightly Characteristic
Density : 1,30 g/cm³ (20⁰C)
pH : 5-11 1% (20⁰C)

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10. STABILITY AND REACTIVITY

Conditions to avoid : Extereme temperatures and direct sunlight.

Substances to avoid : Avoid from strong acids and bases.

Hazardous reactions : There is not hazardous reactions when stored and handled suitable. Resistant to storage conditions. Hazardous polymerization products does not occur.

11. TOXICOLOGICAL INFORMATION

Copper Hydroxide Technical Article:

Acute oral toxicity: LD₅₀ mouse = 489–1280 mg/kg (technical.)

Acute dermal and eye toxicity: percutaneous LD₅₀ rabbit >3160 mg/kg. It may be irritating and corrosive for the eye.

Inhalation toxicity: LC₅₀ (4 hours) mouse =0.56 mg/l. **NOEL** 16–17 mg Cu/kg b.w.daily**ADI/RfD** (JECFAevaluation) Coppercompounds 0.5 mg/kg [1982];(WHO) 0.5 mg/kg [1998]; (EC) 0.15 mg Cu/kg b.w.[2007].

Toxicity Classification: WHO (a.i.) III; EPA(formulation) III.

12. EKOLOJİK BİLGİ

Copper Hydroxide Technical Article:

Birdacute Oral LD₅₀ mallard ducks 223 mg Cu/kg.

DietLC₅₀ (8 days) mallard ducks 219.7 mg Cu/kg b.w.daily.

FishLC₅₀ (96 hours) rainbow trout 10 mg Cu/l.

Daphnia EC₅₀ (48 hours) 0.0422 mg Cu/l.

Alg EC₅₀ 22.5 mg Cu/l.

Bee LD₅₀ (oral) 49.0 µg Cu/bee; (contact) 42.8 µg Cu/bee.

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13. DISPOSAL CONSIDERATIONS

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 Packaging: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-No. :3082

HazardClass :9

Packing Group :III

Product Type : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DOESN'T CONTAIN WASTE) (CONTAINS COPPER HYDROXIDE)

IMDG

UN-No. :3082

HazardClass :9

Packing Group :III

EMS

Marine Pollutant : Yes

Product Type : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DOESN'T CONTAIN WASTE) (CONTAINS COPPER HYDROXIDE)

IATA

UN-No. :3082

HazardClass :9

Packing Group :III

Product Type : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DOESN'T CONTAIN WASTE) (CONTAINS COPPER HYDROXIDE)

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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:



N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Containing Copper Hydroxide

Risk Phrases

Physicochemical : -

Health : -

Environment

R50/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S1/2 : Keep locked up and out of the reach of children.

S9 : Keep container in a well-ventilated place

S29/56 : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

Important Labelling:

Follow instructions to avoid personal and environmental risks.

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16. OTHER INFORMATION

All Hazard Symbols Mentioned in Section 2:

N : Dangerous for the environment

All Risk Phrases Mentioned in Section 2:

R50/53 : Very 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 includes criteria of regulatory when preparing Safety Data Sheet. Required data are prepared 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 institutions and people are invited to comply with the mentioned regulation.