

Version: 1.0 Issue date: Oct. 10, 2020

MATERIAL SAFETY DATA SHEET OF

PROCHLORAZ 450G/L EC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product name: Prochloraz 450g/L EC

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

Fax: + 86 21 63065878

Recommended use: Fungicide

2. COMPOSITION/INFORMATION ON INGREDIENTS

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION(g/L, w/v)
Prochloraz	67747-09-5	450
Other ingredients	--	Up to 1L

3. HAZARDS IDENTIFICATION

Warning –

May be harmful if swallowed, inhaled or absorbed through the skin.

May cause eye and skin irritation.

May cause reproductive/development damage from repeated oral exposure.

May cause organ damage from repeated oral exposure at high doses. This product is corrosive and may cause severe eye damage.

Avoid contact with skin and eyes and avoid inhalation of spray mist. Wash splashes of concentrate from skin immediately.

ECOTOXICITY

Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

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Very toxic in the soil environment.

4. FIRST AID MEASURES

First-aid measures: Remove victim from area of exposure. Wash off remaining material with plenty of water.

Skin contact: Remove contaminated clothing. Wash away remainder with water and soap. Consult a doctor in the event of any complaints.

Eye contact: Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. If pain persists, consult an eye specialist.

Inhalation: Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. Wash out mouth with plenty of water. Seek medical attention. Never give anything by mouth to an unconscious person.

Notes to a physician: No specific antidote known. Treat symptomatically and give supportive therapy.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Water spray, foam, water fog.

Special hazards arising from the substance or mixture

Thermal decomposition generates: carbon dioxide, carbon monoxide, chlorides, nitrogen oxides.

Advice for firefighters

Fight fires from protected location. Dike fire control water for later disposal. Self-contained breathing apparatus and total protection required in enclosed areas.

Further information

No data available

6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe fumes. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC

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and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Color : Clear amber solution

Odor : Characteristic

pH : NA

Solubility in water: Emuslifiable in water

Corrosive: Non corrosive

Oxidisation: Not an oxidiser

10. STABILITY AND REACTIVITY

Physico-chemical stability: Stable under normal conditions

Materials to avoid: strong acids, strong bases

Conditions to avoid: (sun) light, open place, sources of heat. Decomposes upon heating.

Hazardous reactions : Hazardous polymerization will not occur

Hazardous decomposition products: Thermal decomposition generates: carbon dioxide, carbon monoxide, nitrogen oxides, chlorides.

11. TOXICOLOGICAL

Acute toxicity (for active ingredient)

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Oral toxicity Acute oral LD₅₀ for rats 1023, mice 1600–2400 mg/kg.

Skin and eye toxicity Acute percutaneous LD₅₀ for rats >2100 mg/kg.

Irritation Slightly irritating to skin and eyes (rabbits).

Inhalation LC₅₀ (4 h) for rats >2.16 mg/l air.

Chronic toxicity

NOEL (2 y) for dogs 4 mg/kg b.w. daily. AOEL (EU) 0.02 mg/kg b.w./day.

12. ECOLOGICAL INFORMATION

For active ingredient

Birds Acute oral LD₅₀ for bobwhite quail 662, mallard ducks >1954 mg/kg. Dietary LC₅₀ (5 d) for bobwhite quail and mallard ducks >5200 mg/kg.

Fish LC₅₀ (96 h) for rainbow trout 1.5, bluegill sunfish 2.2 mg/l.

Daphnia LC₅₀ (48 h) 4.3 mg/l.

Algae EbC₅₀ (72 h) for *Selenastrum capricornutum* 0.1 mg/l; ErC₅₀ 1.54 mg/l.

Other aquatic spp. EC₅₀ (96 h) for eastern oysters (*Crassostrea virginica*) 0.95, mysid shrimps (*Mysidopsis bahia*) 0.77 mg/l. Bees LD₅₀ (96 h, contact) 141 µg/bee; (48 h, oral) >101 µg/bee.

Worms LC₅₀ for earthworms (*Eisenia foetida*) >1000 mg/kg soil.

Other beneficial spp. Low toxicity to a range of beneficial arthropods.

13. DISPOSAL CONSIDERATION

Triple rinse container and add rinsates to spray tank, burn, if circumstances, especially wind direction permit, otherwise dispose of at an approved landfill. Dispose of this product only by using in accordance with label directions. Dispose of liquid contaminated material/or contaminated soil in an approved landfill. Disposal must be in accordance with applicable local regulations.

14. TRANSPORT INFORMATION

DOT

UN number : 3082

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S, (Prochloraz)

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Class : 9

Packing group : III

IMDG

UN number : 3082

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S, (Prochloraz)

Class : 9

Packing group : III

IATA

UN number : 3082

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S, (Prochloraz)

Class : 9

Packing group : III

15. REGULATORY INFORMATION

Follow all local, international decree, regulation and laws.

16. OTHER INFORMATION

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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --