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MATERIAL SAFETY DATA SHEET OF

CYROMAZINE 75% WP

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product name: Cyromazine 75% WP

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: Insecticide

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation: Wettable powder (WP)

Mol. wt. 166.2

M.f. C₆H₁₀N₆

IUPAC name N-cyclopropyl-1,3,5-triazine-2,4,6-triamine

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION(%, w/w)
Cyromazine	66215-27-8	75
Other ingredients	--	Up to 100

3. HAZARDS IDENTIFICATION

Toxicity class: WHO (a.i.) III (Table 5)

Likely routes of exposure: Skin and eye contact, ingestion and inhalation.

Eye contact: Direct contact with the product may cause moderate eye irritation.

Skin contact: Direct contact with the product may cause moderate skin irritation. Not a skin sensitizer.

Ingestion: Harmful. Large ingestions can cause nausea, vomiting, abdominal distress and diarrhoea.

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Inhalation: Harmful. Inhalation of the dust may be irritating to the nose, throat and upper respiratory tract.

4. FIRST AID MEASURES

Inhalation:

Move the victim to fresh air or remove source of contamination. Monitor for respiratory distress. Administer oxygen or artificial respiration if needed. Seek medical attention if necessary.

Skin contact:

Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice. Persons who become sensitized may require specialized medical management. Wash contaminated clothing thoroughly.

Eye contact:

Flush the eyes immediately with gently flowing lukewarm water for at least 20 minutes. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on advice of a physician. If irritation persists, seek medical advice.

Ingestion:

Seek medical advice immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If person is conscious administer 30 to 60 g activated charcoal in 150 to 300 ml water.

Advice to physician:

No specific antidotes are available. If a large amount of Cyromazine has been ingested and if copious vomiting has not already occurred, the stomach must be emptied and steps taken to limit gastrointestinal absorption. If the patient is fully alert and nervous system depression is not anticipated, oral administration of Syrup of Ipecac is probably the best way to empty the stomach.

Caution: Observe the victim closely after administering Ipecac. If consciousness level declines, or if vomiting has not occurred in 15 minutes, proceed to intubate, aspirate and lavage the stomach with isotonic saline or sodium bicarbonate solution.

Following emesis, have the victim drink a suspension of activated charcoal in water to limit toxicant absorption.

5. FIRE FIGHTING MEASURES

Extinguishing agents:

Extinguishing media - small fires. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires alcohol-resistant foam water spray Do not use a solid water stream as it may scatter and spread fire.

Fire fighting:

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.

Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours. Keep upwind.

Remove container from fire area if possible and without risk. Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways.

Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Personal protective equipment:

Fire-fighters and others that may be exposed should wear full chemical protective clothing and self-contained breathing apparatus. See section 8 for recommendations regarding Exposure Controls/Personal Protection.

6. ACCIDENT RELEASE MEASURES

Personal precautions:

Do not breathe in mist or fumes. Avoid contact with skin and eyes. For personal protection see Section 8.

Environmental precautions:

Do not allow entering drains or watercourses. Cyromazine is highly toxic to fish and aquatic species. In case of accidental spill, prevent the material from getting into lakes, rivers and other bodies of water. Isolate discharged material and keep material out of water sources.

Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill:

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Keep spectators away and upwind. Remove all sources of flames and sparks. Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains.

To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Label drums with its content and dispose it in accordance with local regulations.

Open burning or dumping of this material is prohibited.

Do not get water inside containers.

7. HANDLING AND STORAGE

Handling:

Wear appropriate protective equipment when handling the product. Do not handle material near food, feed or drinking water. Avoid contact with eyes, prolonged contact with skin, and inhalation of mist and vapour. Use with adequate ventilation. Do not eat, drink or smoke while working. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily.

Remove clothing immediately if the pesticide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing.

Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage:

Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original labelled container in isolated, dry, cool and well-ventilated area, away from heat, sparks and other sources of ignition. No smoking is allowed. Protect the product from temperatures below 0°C and above 48°C. Not to be stored next to feeds, food and water supplies. Avoid breaking the containers, spillage or leaks. Comply with the local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

Respirator:

In the event of an accidental discharge of the material when a heavy vapour or mist is produced, workers should put on an approved full-face respirator suitable for protection from spray or mists of pesticides. Respirator is not required in the case of normal application procedure of the product.

Clothing:

Wear appropriate chemical-resistant protective clothing or other impervious clothing. Wear boots and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing. Wash clothing after use.

Gloves:

Wear appropriate chemical-resistant protective gloves whenever the product is handled to prevent contact with this substance. Wash gloves after use.

Eye protection:

Use safety goggles, safety glasses or face-shield.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, an eye wash fountain or appropriate alternative within the immediate work area for emergency use, must be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Powder

Color : White

Odor : Almost no odour

pH : 6.0-9.0

Corrosive: Non corrosive

Oxidisation: Not an oxidiser

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10. STABILITY AND REACTIVITY

Stability:

Considered stable in unopened original packages, under normal, dry storage conditions. Compatible with most fungicides, insecticides, light and medium mineral oils. Always perform a compatibility test before using with other products. Do not physically mix concentrate directly with other pesticide concentrates, always dilute first.

Storage stability:

Stable for 2 years under normal, dry storage conditions in unopened packages. Avoid extremes of temperature; below 0 °C and above 48 °C.

11. TOXICOLOGICAL

Acute toxicity

Oral Acute oral LD50 for rats 3920 mg/kg (combined). Skin and eye Acute percutaneous LD50 for rats >3100 mg/kg. Non-irritating to skin and eyes (rabbits). Inhalation LC50 (4 h) for rats >3.6 mg/l air.

Chronic toxicity

NOEL (2 y) for rats 300, mice 50 mg/kg diet.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD50 for bobwhite quail 1785, Japanese quail 2338, Pekin ducks >1000, mallard ducks >2510 mg/kg.

Fish LC50 (96 h) for bluegill sunfish, carp, catfish and rainbow trout >100 mg/l.

Daphnia LC50 (48 h) >100 mg/l.

Algae LC50 124 mg/l.

Bees Non-toxic to adult honeybees (no contact action up to 5 µg/bee).

Worms LC50 >1000 mg/kg.

Other beneficial spp. Non-toxic.

13. DISPOSAL CONSIDERATION

Pesticide disposal

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Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. Do not contaminate rivers, dams or any other water sources with the product or used containers.

Package product wastes

Emptied containers retain vapour and product residues. Observe all labelled safeguards. Empty the container of excess product into the container of the applicator. Destroy the emptied containers by perforation and flattening. Bury in an approved dump site. Do not re-use the empty container for any other purpose.

14. TRANSPORT INFORMATION

According to IMDG IMO, this product is not classified as dangerous goods.

UN number : NA

Proper shipping name : NA

Class : NA

Packing group : NA

15. REGULATORY INFORMATION**Risk phrases:**

R 20/22 Harmful by inhalation and if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 52 Harmful to aquatic organisms

Safety phrases:

S 1/2 Keep locked up and out of the reach of children.

S 24/25 Avoid contact with skin and eyes.

S 36//37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 61 Avoid release to the environment. Refer to safety data sheet.

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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 --