

CYGON

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: CYGON
Pesticide Classification: Insecticide
UN No.: 3077

Supplier

Enviro Bio-Chem (Pty) Ltd
Co. Reg. No.: 2013/194774/07
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Registration Holder

RT Chemicals
Co. Reg. No.: CK87/21925/23
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Telephone: +27 87 231 7261
Fax: 086 541 7948
Website: www.envirobiochem.co.za

24 Hr Emergency Number: Bateleur: +27 83 123 3911

In case of Poisoning:

Poison Information Centre: +27 82 446 8946
Tygerberg Hospital: (+27 21) 931 6129
Poison Emergency Enquiries: (+27 21) 689 5227

Common Name: Cyromazine 750 g/kg WP
Chemical Name: N-cyclopropyl-1,3,5-triazine-2,4,6-triamine
Empirical Formula: C₆H₁₀N₆
CAS No.: 66215-27-8
RSA Reg. No.: L7230 Act 36 of 1947
Namibia Reg. No.: N-AR 1469

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Cyromazine	≥ 750 g/kg

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazard: Slightly toxic and moderately irritating to skin and eyes.

Flammability: Non-flammable. This material presents a slight dust explosion hazard.

Chemical Hazard: No specific chemical hazard to mention.

Biological Hazard: No specific biological hazard to mention.

4. FIRST AID MEASURES AND PRECAUTIONS

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital or the nearest Poison Control Centre.

Symptoms of Human Poisoning: Exposure may cause irritation of eyes, skin or upper respiratory tract.

First Aid Measures:

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

Ingestion: If victim is fully conscious, give 1 or 2 glasses of water to drink and induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary. Seek medical attention.

Advice to Physician: If a large amount has been ingested and emesis is inadequate, lavage stomach. An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant. Individuals with pre-existing respiratory disorders can be susceptible.

Antidote: There is no specific antidote for poisoning with this product.

5. FIRE FIGHTING MEASURES

Flammability: Not flammable. This material presents a slight dust explosion hazard.

Extinguishing Agents: Extinguish fires with CO₂, dry powder or foam.

Firefighting: Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated.

Special Hazards: None to specifically mention.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions: Wear protective clothing. Avoid breathing vapours or spray drift. If necessary, wear a self-contained breathing apparatus.

Environmental Precautions: Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay or another absorbent material.

Spills: Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering and a NIOSH-approved dust or pesticide respirator with dust prefilters. For small spills, sweep up, keeping dust formation to a minimum and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, Sweep up the contaminated absorbent material and place in a chemical container. Seal the container and dispose of according to Section 13 of this document. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with skin, eyes and clothing. Keep away from direct sunlight, food, seed, animals, children and uniformed persons. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside, then wash skin thoroughly using 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: Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products where it can be contaminated with this product. Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Acceptable Daily Intake (ADI): No data available.

Engineering Controls: Use outdoors in a well-ventilated area. Comply with occupational safety, environmental, fire and other applicable regulations. Wear suitable personal protective equipment.

Personal Protective Equipment:

Clothing: Long-sleeved shirt, long pants, shoes plus socks, protective waterproof (impermeable) gloves. Employee must wear appropriate protective clothing and equipment to prevent prolonged skin contact with this product. Clothing soaked with product solution should be promptly removed and laundered before re-use.

Gloves: Protective waterproof (impermeable) rubber or plastic gloves are recommended.

Eye Protection: Wear eye protection. During mixing or pouring operations or other activities in which eye contact with undiluted product is likely to occur, splash goggles should be worn. Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

Respiratory: To avoid breathing dust, wear a NIOSH-approved dust or pesticide respirator with dust prefilters.

Other Protection: Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid drift. Wash accurately (preferably a shower) after a work shift. Wash hands with soap and water during breaks and at the end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder.

Odour: Pungent, mercaptan type.

Storage Stability: It is stable in normal warehouse conditions for two years.

10. STABILITY AND REACTIVITY

Stability: The product is stable when stored under normal storage conditions at normal temperatures.

Conditions to Avoid: None to specifically mention.

Incompatible Materials: Not compatible with endosulfan or lufenuron.

Hazardous Decomposition Products: None to specifically mention.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the active ingredient toxicity.

Acute Oral LD₅₀ (rat): 3 387 mg/kg. Slightly toxic.

Acute Dermal LD₅₀ (rat): >3 100 mg/kg. Slightly toxic.

Acute Inhalation LC₅₀ (rat, 4 hr): 2.72 mg/l air. Slightly toxic.

Skin and Eye Irritation (rabbit): Moderately irritating to skin and eyes.

Skin Sensitization (guinea pig): Not a skin sensitizer.

Chronic Dietary Study: None observed.

Carcinogenicity: None observed.

Mutagenicity: None observed.

Reproductive Hazard: None observed.

12. ECOLOGICAL INFORMATION

Ecotoxicity is based on the active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): 51 mg/l (rainbow trout); 90 mg/l (bluegill sunfish). Slightly toxic to fish.

Aquatic Toxicity Daphnia EC₅₀ (48 hr): 9.1 mg/l. Moderately toxic to aquatic invertebrates

Aquatic Toxicity Algae EC₅₀ (5 days): Very toxic to algae.

Avian Toxicity LD₅₀ (9 days): >2 510 mg/kg (mallard ducks); 1 785 g mg/kg (bobwhite quail). Practically non-toxic to birds.

Bee Toxicity LD₅₀: Non-toxic to honey bees.

Biodegradability: Laboratory and field studies demonstrate that cyromazine is efficiently degraded by biological mechanisms.

Bio-accumulation: No bio-accumulation is expected.

Mobility: In soil and environment, cyromazine and melamine (metabolite) are classified as high to low mobile, depending on the type of soil.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Waste resulting from the use of this product that cannot be re-used or reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable local procedures. Comply with any local legislation applying to waste disposal. Do not contaminate water, food, or feed by storage or disposal.

Package Product Wastes: Dispose of as product containers, waste containers and residues as hazardous waste via a licensed disposal contractor to an approved landfill.

14. TRANSPORT INFORMATION

UN No.: 3077

Class: 9

Packaging Group: III

Proper Shipping Name: Environmentally Hazardous Substance; Solid; N.O.S. (contains Cyromazine).

15. REGULATORY INFORMATION

Risk Phrases: **R20/22-** Harmful by inhalation and if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

R52- Harmful to aquatic organisms.

Safety Phrases: **S1/2-** Keep locked up and out of the reach of children.

S24/25- Avoid contact with skin and eyes.

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

National Legislation: This product is registered under Act 36 of 1947 of the Republic of South Africa. It is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions.

16. OTHER INFORMATION

Note: Read and understand all the information on the product label before using the product.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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