

Safety Data Sheet (SDS) CYGON

According to UN GHS 8th Ed
Revision Date: 02/07/2022

First print date: 01/06/2018
Version: 1.1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **CYGON**

Common name: **Cyromazine 750 g/kg WP**

Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Details of the Registration Holder:

RT Chemicals CC, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

Emergency telephone numbers:

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

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to Regulation (EC) No 1272/2008 EU-GHS/CLP

Hazard classes/Hazard categories	Hazard statement
Acute Toxicity (Category 4)	H332
Skin Sensitisation (Category 1)	H317
Eye damage (Category 1)	H318
Aquatic Toxicity Chronic (Category 1)	H410

For full text of H statements see section 16

The most important adverse effects

The most important adverse physicochemical effects: None known

The most important adverse human health effects: Causes serious eye damage. May cause an allergic skin reaction.

Label elements



Hazard pictograms:

Signal Word: Danger

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Hazard Statements:

H332	Harmful if inhaled
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P102	Keep out of reach of children
P103	Read label before use
P264	Wash hands, forearms, and face thoroughly after handling
P280	Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P261	Avoid breathing mist, vapours and spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up
P391	Collect spillage
P501	Dispose of contents/container in accordance with local/regional/ national regulations

Other hazards: None known

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Cyromazine	66215-27-8	76.5%	Aquatic Chronic (Category 1) H410
Sodium dodecyl sulfonate	25155-30-0	<5 %	Acute toxicity Oral (Category 4) H302 Skin irritation (Category 2) H315 Eye damage (Category 1) H318
Hexamine	100-97-0	<1%	Flammable solid (Category 2) H228 Skin Sensitiser (Category 1) H317

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

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Remove the patient from the area of exposure. Wash off remaining material with plenty of water. Avoid further exposure. If irritation persists, consult a doctor.

In case of inhalation: If inhaled, remove from contaminated area to fresh air and assist breathing as required. Seek medical attention if irritation persists.

In case of skin contact: In case of contact, Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Do not rub the skin. Seek medical attention if irritation persists.

In case of eye contact: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.

In case of ingestion: If person is conscious administer 30 to 60 g activated charcoal in 150 to 300 ml water. Do not induce vomiting without medical advice. Do not give anything by mouth to an unconscious person. Seek medical attention or call a poison control centre for treatment advice if the victim feels unwell.

Most important symptoms and effects, both acute and delayed:

Anticipated acute effects: None known

Anticipated delayed effects: None known

Most important symptoms/effects: None known

Indication of any immediate medical attention and special treatment needed:

This product contains Cyromazine. No antidote is available. Empty the stomach by gastric lavage. Give activated charcoal if person is alert.

Treat symptomatically and supportively.

SECTION 5. FIRE FIGHTING MEASURES

Extinguisher media:

Suitable extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

Small Fire: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

Large Fire: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site. Use as little water as possible.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

Advice for fire-fighters:

Avoid inhaling hazardous vapours. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment, and emergency procedures:

Personal precautions: Avoid inhalation of dust. Avoid contact with skin and eyes.

For emergency responders: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

Emergency procedure: Alert emergency response personnel. Evacuate unprotected spectators and animals.

Environmental precautions:

Stop leak if without risk. Prevent spilled product from entering sewers, waterways or ground water.

If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

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Methods for containment and cleaning up:

For small spills Contain spilled material by diking if possible. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth. Collect in suitable and properly labelled containers.

For large 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. If product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by diking in with absorptive material. Do not flush spilled material into drains. To decontaminate spill area, tools and equipment, wash with a suitable solution (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. See section 13 for disposal consideration

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store in its original, labelled container, tightly closed in an isolated, dry, cool, and well-ventilated area, away from heat, sparks and other heat sources.

Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of unauthorised persons, children and animals.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): No information available.

Biological exposure indices (BEI): No information available.

Additional exposure limits under the conditions of use: No information available

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide adequate ventilation. Provide exhaust ventilation or other engineering controls. Ensure that control systems are properly designed. Comply with occupational safety, environmental, fire and other applicable regulations. Ensure that eyewashstations and safety

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showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: Avoid contact with eyes. Wear a full-face shield when handling the product or spraying. The use of safety glasses with side shields (or goggles) are recommended if a face shield is not used. This product causes serious eye damage

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product.

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

Environmental exposure controls: Prevent product from entry into sewers and water courses

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Powder
Colour	White
Odour	Mercaptan type odour
Odour threshold	No data available
pH	No data available
Melting point / freezing point (°C)	No data available
Boiling point (°C)	No data available
Flash point (°C)	No data available
Evaporation rate	No data available
Flammability	No data available
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C) g/cm ³	No data available
Water solubility (g/l) at 20°C	Dispersible
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions.

Chemical stability:

The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

Possibility of hazardous reactions:

No information available.

Conditions to avoid:

Avoid excessive heat sources.

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Incompatible materials:

None known

Hazardous decomposition products:

None known

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution: No data available

Information on toxicological effects:

Assessment of acute toxicity:

The product has not been tested. The data reported is for the main ingredients in the mixture.

Cyromazine tech CAS No. 66215-27-8	
Acute toxicity:	
Acute Oral LD50 (rat)	3920 mg/kg
Acute Dermal LD50 (rat):	>3100 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>3.6 mg/l air
Skin irritation/ corrosion (rabbits)	Not a skin irritant
Eye damage / irritation (rabbits)	Not an eye irritant
Respiratory or skin sensitization (guinea pig)	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Sodium dodecylbenzenesulphonate CAS No. 25155-30-0	
Acute toxicity:	
Acute Oral LD50 (rat - male)	500-2000 mg/kg
Acute Dermal LD50 (rat):	2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	0.31 mg/l
Skin irritation/ corrosion	Irritating to skin
Eye damage / irritation	Irritating to eyes
Respiratory or skin sensitization	Not a respiratory or skin sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Hexamine CAS No. 100-97-0	
Acute toxicity:	
Acute Oral LD50 (rat)	>20 000 mg/kg
Acute Dermal LD50 (rat male and female):	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	No data available
Skin irritation/ corrosion	Not an eye irritant
Eye damage / irritation	Irritating to eyes
Respiratory or skin sensitization (Guinea pig)	May cause sensitisation by skin contact
Germ cell mutagenicity	Negative in Ames test (<i>S. typhimurium</i>)
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

SECTION 12. ECOLOGICAL INFORMATION

Cyromazine tech CAS No. 66215-27-8	
Toxicity	
Birds Acute oral LD ₅₀	1785mg/kg Bbwhite quail; 2338 mg/kg Japanese quail; >1000 mg/kg Pekin duck; >2510 mg/kg Mallard ducks
Aquatic Toxicity Fish LC ₅₀ (96 h) Aquatic Toxicity Daphnia LC ₅₀ (48h) Algae LC ₅₀ (5d) Bee Toxicity LD ₅₀ Worms LC ₅₀	>100 mg/l (rainbow trout, bluegill sunfish, carp, catfish) >100 mg/l 124 mg/l Non-toxic to adult honeybees. No contact action up to 5 µg/bee. >1000 mg/kg
Metabolism	Cyromazine is rapidly metabolized in plants. The principle metabolite is melamine. Laboratory and field studies demonstrate that Cyromazine is efficiently degraded by biological mechanisms
Persistence and degradability	Degrades moderately to slowly in aerobic soil in the light. t ₅₀ = 260 days. Degrades more rapidly under aerobic and anaerobic conditions in the dark. t ₅₀ = 2 to 3 months
Bioaccumulation potential	Negligible. BCF = <1X, whole fish
Mobility in soil	In soil and environment, Cyromazine and its main metabolite, melamine is classified as high to low mobile, depending on the type of soils. Koc = 79 to 1784.

Calcium dodecylbenzenesulphonate CAS No. 26264-06-2

Toxicity

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Aquatic Toxicity Fish LC ₅₀ (96 hr)	1.74 -7.16 mg/l
Aquatic Toxicity Daphnia semi static EC ₅₀ (96 hr)	No data available
Toxicity to algae – static test EC ₅₀ (96h)	2.73 – 29 mg/l
Toxicity to bacteria EC ₅₀ (3h)	500 – 723 mg/l
Persistence and degradability	No data available
Bioaccumulation potential	No data available
Mobility in Soil	No data available
Result of PBT and vPvB assessment	No data available
Other adverse effects	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product:

Keep out of drains, sewers, ditches, and waterways. Open dumping or burning of this pesticide is prohibited.

Waste resulting from the use of this product cannot be re-used or reprocessed. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

Container:

Refer to container label for disposal information. Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is cleaned, reconditioned, or destroyed. Rinse empty container three times with a volume of water equal to at least one tenth of that of the container. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider.

Follow all local/ regional/ national/ international regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number	3077
UN proper shipping name	Environmentally Hazardous Substance; Solid; N.O.S. (Cyromazine 750 g/kg).
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021.UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African

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law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

Relevant H statements (number and full text):

H302-Harmful if swallowed

H315-Causes skin irritation

H228-Flammable solid

Skin sensitisation (Category 1): My cause an allergic skin reaction

Eye damage (Category 1): Causes serious eye damage

Aquatic chronic toxicity (Category 1): Very toxic to aquatic life with long lasting effects

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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.