

TalOnil 720

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: TalOnil 720
Pesticide classification: Fungicide
UN No.: 3082

Supplier

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

Registration Holder

Erintrade CC t/a RT Chemicals CC
Co. Reg. No.: CK2001/036403/23
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: Chlorothalonil 720 g/l SC
Chemical Name: Tetrachloroisophthalonitrile (IUPAC)
Empirical Formula: C₈Cl₄N₂
CAS No.: 1897-45-6
RSA Reg. No.: L8935 Act/Wet No. 36 of/van 1947
Namibia Re. No.: N-AR 1458

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Chlorothalonil	≥ 720 g/l

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazard: Moderately irritating to skin and severely irritating to eyes. Moderately toxic when inhaled.

Flammability: Non-flammable

Chemical Hazard: No specific chemical hazard to mention.

Biological Hazard: Product is considered a marine pollutant. Highly toxic to fish and aquatic organisms.

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: No signs and symptoms of poisoning are known.

First Aid Measures:

Skin Contact: Remove contaminated clothing and wash before re-use. Wash affected skin areas with clean running water and soap. Treat symptomatically. Seek medical attention if symptoms persist.

Eye Contact: Hold eyes open and flush immediately with clear, clean running water for at least 15 minutes. If eye symptoms (redness, irritation or pain) persist refer patient to ophthalmologist for examination of eyes.

Ingestion: Wash out mouth with water if the patient is alert and conscious. Do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Keep patient at rest and seek medical attention. Give a glass of water. Begin artificial respiration if victim is not breathing. Use mouth to nose rather than mouth to mouth.

Inhalation: Move victim from contaminated area to fresh air. Avoid inhalation of vapor or spray mist. Seek medical attention.

Advice to Physician: The product contains a chloronitrile fungicide. Treat symptomatically and supportively. Anti-histamines or steroid creams may be effective to treat temporary allergic reactions e.g. redness of eyes, mild bronchial irritation, redness or rash on exposure skin.

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

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable and non-combustible.

Extinguishing Agents: Use foam, carbon dioxide, dry powder, halon extinguishing agents or water-fog. Do not use water jet. Contain run-off water with, for example, temporary earth barriers.

Firefighting: Wear full protective clothing and self-contained breathing apparatus. 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 and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. 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 firefighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Special Hazards: Fire may produce irritating and/or toxic vapors, mists or other products of combustion.

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 other absorbent material. Considered as marine pollutant.

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. Keep spectators away and upwind. 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.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with skin, eyes and clothing. 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 in original sealed containers in a cool, well-ventilated and dry storehouse. Keep away from direct sunlight, food, seed, animals, children and uniformed persons. Do not leave spray solution in spray tanks for long periods.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits: 0.03 mg/kg body weight.

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 TalOnil 720 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 TalOnil 720 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: When handling the product and when preparing the spray mixture, wear a face shield. It is usually safe to use the product without respirator. If the product is used in dusty or confined conditions, a respirator suitable for protection from dusts and mists of pesticides is adequate.

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 work shift. Wash hands during breaks and at the end of the work with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale grey liquid.

Odor: Slightly pungent.

pH: 6 - 8

Flammability: Non-flammable

Explosive Properties: Not an explosion hazard.

Density: 1.33 g/ml

Solubility in Water: Forms a suspension in water.

10. STABILITY AND REACTIVITY

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

Conditions to Avoid: Avoid extreme temperatures.

Incompatible Materials: Avoid metals such as aluminium.

Decomposition Products: Vapors such as hydrogen chloride may form under fire conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on technical difenoconazole toxicity.

Acute Oral LD₅₀ (rat): >5 000 mg/kg.

Acute Dermal LD₅₀ (rabbit): >5 000 mg/kg.

Acute Inhalation LC₅₀ (rat, 4 hr): >0.52 mg/l air. Moderately toxic.

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

Skin Sensitization: Sensitizer to some individuals.

Chronic Dietary Study: In 1-year dog studies showed a significant decrease in body weight gain and an increase in absolute liver and kidney weights were observed. Organs affected in animals by exposure to chlorothalonil include lung, the kidneys and liver.

Carcinogenicity: Chlorothalonil is classified as a category 3 carcinogen. Possibly carcinogenic to humans.

Mutagenicity: Did not show mutagenic effects in animal experiments.

Reproductive Hazard: Chlorothalonil does not appear to cause reproductive toxicity in rabbits and rats.

12. ECOLOGICAL INFORMATION

Ecotoxicity based on active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): 47 µg/l (rainbow trout); 59 µg/l (bluegill sunfish). Highly toxic to fish.

Aquatic Toxicity Daphnia LC₅₀ (48 hr): 70 µg/l. Highly toxic.

Aquatic Toxicity Algae EC₅₀: 210 µg/l (selenastrum capricornutum).

Avian Toxicity LD₅₀: >4 640 mg/kg (mallard duck). Practically non-toxic to birds.

Bee Toxicity LD₅₀: >101 µg/bee (contact); >101 µg/bee (oral). Non-toxic to bees.

Biodegradability: Chlorothalonil is not persistent in soil or in water and stable to hydrolysis with DT₅₀, depending on the situation, between 10 days and 38 days. Degradation is faster in biotic aquatic systems, typical DT₅₀ (aerobic) ≤ 2.5 days.

Bio-accumulation: Risk of bioaccumulation in aquatic organisms is low. Log P_{ow} = 2.92.

Mobility: K_{oc} = 850 to 7000 ml/g. Indicating low to no mobility.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be re-used or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill.

Package Product Wastes: Emptied containers retain vapours 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. Add the rinsings to the spray tank before perforating and flattening the container. Dispose of in approved landfill or preferably in a pesticide incinerator.

14. TRANSPORT INFORMATION

UN No.: 3082

Class: 9

Packaging Group: III

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Chlorothalonil)

15. REGULATORY INFORMATION

Risk Phrases: R22- Harmful if swallowed.

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

R40- Limited evidence of a carcinogenic effect.

R50- Very toxic to aquatic organisms.

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

S13- Keep away from food, drink and animal feedstuff.

S24/25- Avoid contact with skin and eyes.

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

S60- This material and its container must be disposed of as hazardous waste

S61- Avoid release to the environment. Refer to special instructions/safety data sheets.

S62- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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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