

MADEPIL TRI 90

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MADEPIL TRI 90

Internal identification code: 02

Application: Fungicide

Manufacturer:

INDÚSTRIA QUÍMICA DIPIL LTDA. Rodovia Guilherme Jensen, SC 413 Km 13

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Emergency Telephone Numbers

Company: (+55 47) 3029-0129.

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2. INFORMATION ON COMPOUNDS AND INGREDIENTS

This chemical product is a preparation

Chemical Nature: Bromo-organic compound

SYNONYMS	CHEMICAL GROUP	CONCENTRATION G/L	N°CAS	MOLECULAR FORMULA
Sodium Tribromophenate	Bromo-organic compound	250	2666-53-7	C ₆ Cl ₅ NaO

Classification regarding the Toxicological Environmental Risk and hazard labeling:

Toxicological Class I	High Risk	Highly toxic
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**3. IDENTIFICATION OF HAZARDS**

Most essential hazards: the product is extremely irritating to the eyes and may cause skin sensitization.

Effects of the product:

- Adverse effects on human health: The product is extremely irritating to the eyes. Skin, eyes and mucous membranes are routes of exposure, contact of the product with such routes may cause burns.
- Environmental Effects: highly toxic to aquatic organisms, microorganisms, and soil organisms.
- Physical Hazards: Stable under normal conditions of use and storage.

4. FIRST AID MEASURES

First aid measures: Refer to the nearest healthcare provider taking this sheet.

- Inhalation: Avoid aspiration or inhalation of the product. If this happens, seek an open location, and immediate medical attention, taking the label or this sheet.
- Skin contact: When in contact with the skin, wash with plenty of soap and water and seek medical attention, taking the label or this sheet. CAUTION -PRODUCT MAY CAUSE CUTANEOUS SENSIBILIZATION.
- Eye contact: Immediately wash eyes with plenty of water for at least 15 minutes while holding eyelids apart, and seek medical attention taking the product label or this sheet.
- Ingestion: If swallowed, DO NOT induce vomiting. Drink 1 or 2 glasses of water and seek immediate medical advice, taking the product label or this sheet. WARNING - PRODUCT EXTREMELY IRRITATING TO THE EYES. WARNING: Never give anything orally to an unconscious person.

Actions to be avoided: Do not apply mouth-to-mouth if the patient has ingested the product. Use an intermediary or emergency room to perform the procedure. Do not administer anything orally or induce vomiting in an unconscious victim.

Description of the main symptoms and effects:

- Strong or acute intoxication: sore throat, cough, reduced breathing rate, nasal irritation, nausea and vomiting, abdominal pain.

Protection for first-aiders: avoid skin contact and inhalation during the care of the injured individual.

Notes to Physician: The product has no known specific antidote: symptom and antihistamine treatment.

4. PREVENTION AND FIRE-FIGHTING MEASURES

Suitable extinguishing means: In case of fire, use foam, CO₂, chemical powder, and water mist extinguishers.

Unsuitable extinguishing means: full water jet.

Special methods:

- Evacuate the area and fight the fire from a safe distance;
- Use water in the form of a mist to cool equipment near the fire;
- Position with your back to the wind, avoiding possible intoxications;
- Use **clicks** to contain the water used in combat.

Protection for fire-fighters: In ventilated rooms: wear a protective mask. In closed rooms: insulation device (breathing apparatus independent of circulating air) and approach/protection clothing for elevated temperatures.

5. CONTROL MEASURES FOR SPILLS AND LEAKS

Personal precautions: use PPE as described in item 8. Keep non-participating people away. Contact your local authorities and the manufacturer.

- Removal of ignition sources: interrupt the electrical power and turn off spark-generating sources. Remove any material that may cause a fire hazard (e.g., diesel oil).

- Dust control: Not applicable as it is a liquid.

Environmental precautions: Avoid contamination of watercourses by blocking the entry of rainwater galleries (wolf's mouth). Prevent spilled product residues from reaching bodies of water by building dikes with soil, sand or other absorbent materials.

Cleaning methods: On pavement floor: contain and collect the spill with non-combustible absorbent materials (e.g., sawdust, sand, soil, vermiculite, diatomaceous earth); Directly on the soil: remove the contaminated soil layer until reaching the uncontaminated layer. Place the waste in a closed container for disposal according to local regulations. Place the cleaning material in a container that can be closed and then disposed of.

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6. HANDLING AND STORAGEHandling:- Technical measures:

- Prevention of worker exposure: use PPE as described in Item 8. Do not eat, drink or smoke while handling the product. Avoid spills when opening the package. Do not use damaged or defective personal protective equipment. Do not handle or load damaged packaging.

- Prevention against fire and explosion: Eliminate sources of heat and ignition. All electrical equipment must be shielded and explosion-proof. The installations and equipment must be grounded to avoid static electricity. Do not smoke. The product is not explosive.

- Precautions for safe handling: use PPE as described in Item 8. Handle in a well-ventilated location away from heat sources. Handle the product with suitable focal exhaustion or in a well-ventilated area. If in an open environment, handle it with your back to the wind. Apply only as recommended by the manufacturer. In the event of poisoning symptoms, stop work immediately and proceed as described in Item 4 of this sheet.

Storage:

- Appropriate technical measures: keep the product in its original container. Store in a manner that is not accessible to outsiders. Keep any product leftovers in their original containers adequately closed. Store it in a location adequately labeled with the words "CAUTION POISON", exclusively for toxic products. When storing large quantities, they must comply with the NBR-9843.

- Storage conditions:

- Suitable: Keep container tightly closed, in a cool, well-ventilated location, at room temperature, and away from light. Lock the location from unauthorized personnel and children.

- To avoid: humid places, heat sources, and adverse conditions.

- Incompatible products and materials: do not store together with food, beverages, including those intended for animals.

- Safe packaging materials: product already packed in appropriate packaging (PVC).

7. EXPOSURE CONTROL AND INDIVIDUAL PROTECTION

Engineering control measures: In closed rooms use fans, air circulators, exhaust fans; provide adequate ventilation to the workplace. The operator must always wear respiratory protective equipment even when good ventilation is provided.

Appropriate personal protective equipment:

- Respiratory protection: Use masks combined with a chemical filter for organic vapors NIOSH 6003.

- Hand protection: Wear nitrile, PVC or self-adhesive waterproof material gloves.

- Eye protection: Use safety goggles for chemical products.

- Skin and body protection: Wear waterproof long-sleeved overalls and PVC boots, hat, and headband.

Special Precautions: Keep the PPE properly cleaned and in proper conditions of use by periodically conducting inspections and possible maintenance or replacement of damaged equipment.

Hygiene measures: care for hygiene in the working area. Avoid contact with the product. Store work clothes separately. Immediately disinfect work clothing or contaminated clothing; have it washed separately or, if necessary, disposed of by taking the appropriate precautionary measures. Wash hands before breaks. Shower at the end of work.

8. PHYSICAL-CHEMICAL PROPERTIES

Physical state: liquid

Color: light orange

Odor: characteristic

Specific temperatures or temperatures in which changes in the physical state occur: not available.

Boiling point: 282.9°C

Superior/inferior explosiveness limits: not available

Density: 1.170 – 1.190 (20/4)

Solubility: hydro-soluble

pH: 11.0 – 13.0

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9. STABILITY AND REACTIVITYSpecific conditions:

- Instability: not available
- Hazardous reactions: No hazardous reactions if properly applied.
- Conditions to avoid: Heat and ignition sources.
- Incompatible materials or substances: Incompatible with strong oxidizing agents and acids.

10. TOXICOLOGICAL INFORMATIONAcute toxicity:

- DL60 dermal, rats: > 1889 mg/kg
- Inhaling, CL > 50 mg/L (TBF)
- DL50 Oral, rats > 2155 mg/kg

Chronic toxicity:

- Mutagenesis: Not mutagenic in mice
- Carcinogenesis: Not known to be carcinogenic.

11. ECOLOGICAL INFORMATIONEnvironmental and behavioral effects and product impacts:

Acute Toxicity to fish (Carps / **Paulistinha**): $LC_{50} = 0.00336$ mg/L

Environmental impact: considered to be toxic to soil organisms and fish.

Biodegradability: Not considered to be readily biodegradable.

12. CONSIDERATIONS ON TREATMENT AND DISPOSALMethods of treatment and disposal:

Product leftovers: keep any product leftovers or expired products closed adequately in their original packages and treat according to current local legislation.

Used packages: empty containers must be submitted to triple washing and stored in a safe place for later return. Do not burn or bury the packages. Observe specific State and Local Legislation. Consult the State or Municipal Environment Agency.

13. INFORMATION ON TRANSPORTATIONNational and international regulations:Terrestrial:

- UN number: 2902
- Proper shipping name: Toxic Liquid Pesticide **NE**
- Risk Class: 6.1
- Number of Risks: 66
- Packing group: I

14. REGULATIONS

Regulations: Registered at IBAMA nº 0.200. 00.734.901A2

15. OTHER INFORMATION

The information in this data sheet represents the current data and accurately reflects our best knowledge on the proper handling of this product under normal conditions and by the application specified on the package or literature. Any other use of the product that involves the combined use with another product or other processes is the responsibility of the user.

16. INFORMATION ON RISK AND SAFETY

Do not eat, drink or smoke while handling the product;

Do not handle with unprotected hands;

Do not use the product without using the recommended PPE;

Do not use damaged PPE;

Exclusive use in the treatment of wood;

Do not transport the product with food, medication, beverages, feed, animals, or people;

Use only at the dose recommended by the manufacturer.
