

Basic N

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Basic N
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

RT Chemicals CC
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: Propamocarb hydrochloride 722 g/l SL
Chemical Name: Propyl 3-(dimethylamino) propylcarbamate hydrochloride
Empirical Formula: $C_9H_{21}ClN_2O_2$
CAS No.: 25606-41-1
RSA Reg. No.: L6680 Act/Wet No. 36 of/van 1947

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Propamocarb Hydrochloride	722 g/l
Inert Ingredients	Balance

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazard: Product toxicity is low but may be harmful if a large amount is swallowed. May cause sensitization by skin contact.

Flammability: Non-flammable

Chemical Hazard: No specific chemical hazard to mention.

Biological Hazard: Of low toxicity to 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 symptoms of systemic poisoning in humans have been recorded with this product. Slight eye irritation can be expected.

First Aid Measures:

Skin Contact: Remove contaminated clothing and wash before re-use. Wash affected skin areas with fresh running water and soap. Treat symptomatically.

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. Do not induce vomiting. Keep patient at rest and seek medical attention.

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

Advice to Physician: Propamocarb is not a cholinesterase inhibitor. For local contamination, treatment should be symptomatic after decontamination. For systemic poisoning initial treatment should be symptomatic and supportive. Anticonvulsant therapy is not appropriate.

Antidote: There is no specific antidote for poisoning with propamocarb.

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable

Extinguishing Agents: Use extinguishing media suitable for the surrounding fire.

Firefighting: Firefighters should wear full protective gear, including self-contained breathing apparatus. If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Contain fire-fighting water by bunding area with sand or earth to prevent it from entering any bodies of water. Dispose of fire control water or other extinguishing agent and spillage according to Section 13 of this document.

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 other absorbent material.

Spills: Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with skin, eyes and clothing. Do not leave spray solution in spray tanks for long periods. 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.

Handling/Storage: Store at temperature not exceeding 30 °C. Store in original sealed containers, in a 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. Use with adequate ventilation.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits: No exposure standard has been assigned by the National Occupational Health and Safety Commission for the product or its ingredients.

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 Basic N 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 Basic N 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: Avoid inhaling fumes or spray drift. Respiratory protection is not required for normal use and handling. During periods of abnormal exposure to heavy spray or mist, use a NIOSH approved mist respirator. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

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: Clear, colorless to light yellow homogeneous liquid.

Odor: No data available.

pH: 6 - 8

Flammability: Non-flammable

Explosive Properties: No explosion hazard.

Density: 1.1 g/ml

Solubility in Water: Readily soluble in water.

10. STABILITY AND REACTIVITY

Stability: The product is stable for 2 years, when stored under normal storage conditions at normal temperatures.

Conditions to Avoid: Extreme heat.

Incompatible Materials: No data available.

Decomposition Products: None under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): 2 000 to 2 900 mg/kg

Acute Dermal LD₅₀ (rat): > 3 000 mg/kg

Acute Inhalation LC₅₀ (rat, 4 hr): > 8 mg/l air.

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

Sensitization (guinea pig): Not a skin sensitizer.

Chronic Dietary NOEL (24 month): At doses of up to 3000 mg/kg propamocarb hydrochloride per day in rats, no cholinesterase inhibition was found.

Carcinogenicity: Not carcinogenic.

Mutagenicity: Not mutagenic.

Reproductive Hazards: It is unlikely that the compound would produce any reproductive effects in humans.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Fish LC₅₀ (96 hr): >99 mg/l (rainbow trout); >92 mg/l (bluegill sunfish). Of low toxicity to fish.

Aquatic Toxicity Daphnia EC₅₀ (48 hr): >106 mg/l.

Aquatic Toxicity Algae LC₅₀ (90 hr): 595 mg/l (*Scenedesmus quadricauda*).

Avian Toxicity LD₅₀: >1 812 mg/kg (mallard duck). Practically non-toxic to birds.

Bee Toxicity LD₅₀: Non-toxic to bees.

Biodegradability: Aquatic micro-organisms rapidly decompose propamocarb hydrochloride (up to 97% within 35 days).

Bio-accumulation: No data available.

Mobility: The material does not leach and with the mineralization being so rapid, the compound does not contaminate the groundwater, even under favourable conditions.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill. Do not contaminate crops, grazing, rivers or dams with chemical or used containers.

Package Product Wastes: 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. 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: Environmental Hazardous Substance; Liquid; N.O.S (contains Propamocarb)

15. REGULATORY INFORMATION

Risk Phrases: R 43- May cause sensitization by skin contact.

Safety Phrases: S2- Keep out of reach of children.

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

S20/21- When using do not eat, drink or smoke.

S24- Avoid contact with skin.

S37- Wear suitable gloves.

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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