

DEURBRAAK

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: DEURBRAAK
Pesticide Classification: Plant Growth Regulator
UN No.: 2922

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
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: Cyanamide 520 g/l SL
Chemical Name: Hydrogen cyanamide
Empirical Formula: CH₂N₂
CAS No.: 420-04-2
RSA Reg. No.: L7255 Act 36 of 1947
Namibia Reg. No.: N-AR 1185

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Cyanamide	520 g/l

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class II -Moderately hazardous.

Main Hazard: Severely irritating to skin and eyes. Harmful if swallowed.

Flammability: Non-flammable

Chemical Hazard: Smoke fumes produced during a fire includes nitrous gases, carbon oxides, hydro-cynic acid and hydrocyanic acid.

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: No signs and symptoms of poisoning are known or expected in humans.

First Aid Measures:

Skin Contact: Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice.

Eye Contact: Immediately flush the eyes with clean, gently flowing cool water for 15-30 minutes, holding the eyelids open. If irritation persists, seek medical advice.

Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting unless the patient has swallowed a large amount of product. Seek medical advice immediately showing container and label.

Inhalation: Remove source of contamination or move victim to fresh air. Keep patient at rest and in a half-upright position. Treat symptomatically and supportively. Seek medical advice.

Advice to Physician: Treat symptomatically and supportively as and when required. Symptoms may be delayed by up to 48 hours following ingestion.

Antidote: There is no known antidote.

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable

Extinguishing Agents: Extinguish small fires with carbon dioxide or dry chemical. Extinguish large fires with foam or water. Move containers from fire area if it is safe to do so. Cool containers with water from maximum distance.

Firefighting: Fire may produce irritating or poisonous vapours, mists or other products of combustion. Firefighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus. Remove spectators from surrounding area. Evacuate downwind. Remove container from fire area if possible. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours and fumes from burning materials.

Special Hazards: Smoke fumes produced includes ammonium and nitrous gases, carbon oxides, hydro-cynic acid and hydrocyanic acid.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions: Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protective equipment see Section 8.

Environmental Precautions: Do not allow product to enter drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) must immediately be reported to the police and to the Department of Water/Environmental Affairs.

Spills: Remove all sources of flames and sparks. Soak up with any inert absorbent material such as granular clay, saw dust or pet litter. Place the contaminated absorbent in an approved chemical waste container for disposal according to Section 13.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with eyes. Do not eat, drink or smoke while handling this product. Wash hands and exposed skin thoroughly after handling or contact with this product. Do not contaminate drains, sewers and water bodies when disposing of equipment rinse water. Refer to Section 13 for disposal of rinse water. Observe all safeguards on the label as to cleaning and destruction of the container.

Storage: Store in its original, labelled and closed container. Store in a dry, cool, shaded and well-ventilated area, away from heat, sparks and other sources of ignition. Keep container tightly closed when not in use. Do not store with other pesticides, fertilizer, seeds, foodstuffs and water supplies.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Read the product label before use and refer back to it whenever necessary. The precautions below are suggested where a potential for exposure exists. Emergency conditions may require additional protective measures.

Acceptable Daily Intake (ADI): 0.002 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 product solution should be promptly removed and laundered before re-use.

Gloves: Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

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 Protection: If the product is used in dusty or confined conditions, a mask or 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 a work shift. Wash hands with soap and water during breaks and at the end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless to slightly yellow liquid.

Odor: Perceptible odor.

Solubility in Water: Completely soluble.

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions to Avoid: Avoid exposure to extreme heat. Do not allow evaporation to take place.

Incompatible Materials: Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.

Decomposition Products: Nitrogen oxides and carbon monoxide may be released.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the active ingredient toxicity.

Acute Oral LD₅₀ (rat): 125 mg/kg. Harmful if swallowed.

Acute Dermal LD₅₀ (rabbit): 848 mg/kg.

Acute Inhalation LC₅₀ (rat, 4 hr): >1 mg/l air.

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

Skin Sensitization (guinea pig): Mild skin sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity is based on the active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): 180 mg/l (rainbow trout).

Aquatic Toxicity Daphnia LC₅₀ (48 hr): No data available.

Aquatic Toxicity Algae EC₅₀ (5 days): No data available.

Avian Toxicity LD₅₀ (9 days): 350 mg/kg (bobwhite quail).

Bee Toxicity LD₅₀: Non-toxic to bees.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product that cannot be re-used or reprocessed must be disposed of as hazardous waste via a licensed disposal contractor to an approved landfill. 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.

Package Product Wastes: Triple or pressure rinse empty containers. Pour rinse water into spray tank to spray on target area. Store for collection by approved waste disposal service. Dispose of as hazardous waste via a licensed disposal contractor to an approved landfill. Do not use containers for any other purpose. Follow all local and national regulations.

14. TRANSPORT INFORMATION

Un Number: 2922

Class: 8

Packaging Group: III

Proper Shipping Name: Corrosive Liquid; Toxic; N.O.S. (contains Cyanamide).

15. REGULATORY INFORMATION

Risk Phrases: R21/22- Harmful in contact with skin & if swallowed.

R36/38- Irritating to eyes & skin.

R43- May cause sensitization by skin contact.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: S2- Keep out of reach children.

S24/25- Avoid contact with skin and eyes.

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

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61- Avoid release to the environment.

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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