



SECTION 1: PRODUCT AND COMPANY IDENTITY

Name: **Enviroach (PTY) LTD**

Co. Reg No.: **2017 / 476785 / 07**

Address: **Room 14 Kaapenberg Building, 301 Commissioner Street, Boksburg, 1459**

Substance: Boric acid CAS No: 10043-35-3

Product name: ENVIROACH

Creation date; July 2018

24 Hr Emergency Number: 082 828 9833 / 064 903 0993

In case of poisoning:

Poison Information Centre: 082 446 8946

South Africa Gauteng: Unitas Hospital: 0800 111 9900 (all hours)

Western Cape: Tygerberg Hospital: 021 931 6129

In case of Spillage:

HAZMAT: 0800 147 112

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME: Boric acid 580g/kg

CHEMICAL NAME: Boric acid: Ortho-boric acid

CAS No: 10043-35-3

Chemical family: Acid

CHEMICAL FORMULA: H_3BO_3

MOLECULAR WEIGHT: 61.83

FORMULATION: boric acid 580 g/kg

Ready-to-use bait

USE AND MODE OF ACTION: control of cockroaches. Acts as a stomach poison and may also have some toxic effects on the nervous system of insects. In addition to being stomach poisons, most borate salts are also abrasive to insect exoskeletons

SECTION 3: HAZARDS IDENTIFICATION

Potential acute health effects:

Eye contact: Moderately irritating.

Skin contact: Slightly irritating.

Keep exposed gel away from open food and food contact surfaces.

Toxicity class: WHO II (a.i.). Moderately hazardous.

Likely routes of exposure: Skin and eye contact and ingestion.

Potential chronic health effects:

Carcinogenic effects: Not available.

Mutagenic effects: Mutagenic for bacteria and/or yeast.

Teratogenic effects: Not available.

Developmental toxicity: Classified as a reproductive system/toxin/female and reproductive system/toxin/male [possible].

The substance, boric acid, may be toxic to kidneys, cardiovascular system, central nervous system (CNS). Repeated or prolonged exposure to the substance, boric acid, can produce target organs damage.

SECTION 4: FIRST AID MEASURES

Remove the victim from the area of exposure.

Wash off remaining material with plenty of water.

In the event of any complaints or symptoms, avoid further exposure.

Consult a doctor.

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of clean water for at least 15 minutes and keep eyes open. Cold water may be used. Get medical attention.

Skin contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before re-use. Thoroughly clean shoes before re-use. Get medical attention.

Serious skin contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Unlikely.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Advice to physician: No special antidote. Treat symptomatic and give supportive care.

SECTION 5: FIRE FIGHTING MEASURES

Fire and explosion hazard: Not flammable.

No risk of an explosion from this product under normal circumstances when involved in a fire.

Hazardous products of combustion: None.

Auto-ignition temperature: Not applicable.

Flash point: Not applicable.

Flammable limits: Not applicable.

Firefighting media and instructions: USE EXTINGUISHING MEDIA FOR SURROUNDING FIRE: Water spray, foam, dry chemical.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes.

For personal protection see Section 8.

Occupational spill: Do not touch-spilled material; stop leak if you can do it without risk.

Keep out of reach of unprotected persons and animals.

Small spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large spill: 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.

Do not get water inside containers.

SECTION 7: HANDLING AND STORAGE

Avoid repeated or habitual skin contact and contact with eyes.

Wash hands after use with water.

Ensure adequate ventilation.

Storage: Keep container tightly closed, locked up, in a cool, well-ventilated area. Do not store above 23°C (73.4°F).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

It is essential to provide adequate ventilation.

The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.

Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment:

Respirator: An approved full-face respirator suitable for protection from spray or mists of pesticides is required.

For dust exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides.

Respiratory use and selection must be based on airborne concentrations.

Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

Clothing: Employee must wear appropriate protective (impervious) clothing; overalls or long-sleeves uniform, boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

Do not wear leather clothing.

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

Eye protection: The use of chemical resistant goggles or face shield.

Emergency eyewash: 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to light yellow

Phase: Gel / Bait Gel

Odour: No characteristic odour

Bulk density: 1, 13 g/cm³

Flash point: Not applicable

Flammability: Non-flammable

pH: 5.0-6.0

pH of 1% aqueous dilution: Not applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions to avoid: Avoid extreme heat and direct sunlight. Exposure to moisture.

Incompatibility with other materials: Strong acids.

Hazardous decomposition products: Thermal decomposition may produce toxic by-products of carbon and nitrogen.

Hazard polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Formulation (calculated):

Acute oral LD50: >5000 mg/kg

Acute dermal LD50: > 2000 mg/kg

Inhalation: LC50 (4h) for rats >2 .9 mg/L

Acute skin irritation: Slight skin irritant

Acute eye irritation: Moderate eye irritant

Sensitization: No skin sensitization (guinea pigs)

ADI: (JMPR) 0.0002 mg/kg b.w. [2000]

SECTION 12: ECOLOGICAL INFORMATION

No ecological problems are expected when the product is handled and used with due care.

The following information is on boric acid:

Fish: Nontoxic to harmful. LD₅₀: Colorado squawfish: 279 mg-B/ℓ; Zebrafish: 14.2 mg-B/ℓ

Daphnia: Nontoxic. LC₅₀: 133-226 mg-B/ℓ

Algae: Nontoxic. *Selenastrum capricornutum* (growth) E_bC₅₀: 212 mg-B/ℓ

Earthworm: Nontoxic. LC₅₀: >175 mg B/kg dry soil

Soil organisms: *Pseudomonas putida* NOEC: 59 mg-B/ℓ; *Penicillium chrysogenum* NOEC: 500 mg-B/ℓ

Boron is naturally present in soil at levels of between 10-30 ppm although there are geographical areas that are much higher.

SECTION 13: DISPOSAL CONSIDERATIONS

Pesticide disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be re-used or re-processed. 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.

Container disposal: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

Comply with local legislation applying to waste disposal.

SECTION 14: TRANSPORT INFORMATION

UN No.: not regulated.

Hazchem Code: 1[T]

ERG No.: 0

EAC: 0

IMDG-Shipping Name: NON-HAZARDOUS SUBSTANCE

IMDG Code: NOT APPLICABLE

IMDG-Packaging Group: Not applicable

Marine Pollutant: No

Class: Non-hazardous

Subsidiary Risks: None

SECTION 15: OTHER REGULATORY INFORMATION

Symbol: H₃BO₃ Irritating Substance.

Risk phrases:

R 21/22 Harmful by in contact with skin and if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

S 1/2 Keep locked up and out of the reach of children.

S 3/7/9 Keep container tight & closed in cool well-ventilated place.

S 13 Keep away from food, drink and animal feeding stuffs.

S15 Keep away from heat.

S 20/21 When using not eat or drink.

S 29/35 Do not empty into drains; dispose of this material and its container in a safe way.

S 45 In case of accident or if you feel unwell, seek medical advice immediately.

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 60 This material and its container must be disposed of as hazardous waste.

SECTION 16: OTHER INFORMATION

Packing and labelling: Packed in 20g plastic dropper bottles and labelled according to the South African regulations and guidelines.

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 use of the product.

It is not applicable to unusual or nonstandard 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.

END OF DOCUMENT

Compiled: August 2018