



MATERIAL SAFETY DATA SHEET

NO ANT RTU

Date Issued: May 2014 and is valid for 3 years from this date.

Revision: 4

Print Date: 3/10/14

Page 1 of 8

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: NO ANT RTU

SUPPLIER: EFEKTO

PO BOX 652147

BENMORE

2010

TEL No. 011 287 5700

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 083 1233 911

Fax: 086 685 3129

POISONINGS:

National Poison Centre 021-9386084 (office hours).

021-9316129 (after hours).

082 446 8946

Use: A ready-to-use insecticide for the control of ants in and around the household.

2. HAZARDS IDENTIFICATION

- Toxic to aquatic organisms.
- Irritating.

Likely routes of exposure:

Skin and eye contact, ingestion and inhalation.

Eye contact:

The product may cause irritation.

Skin contact:

The product is irritating. Short-term dermal exposure may cause itching, burning, tingling, numbness, or a feeling of warmth, but not dermatitis.

Ingestion:

Harmful by ingestion. See point 4 for symptoms.

Inhalation:

Harmful by inhalation. See point 4 for symptoms.

Symbols: Xn, N

Risk-phrase(s): R20/21/ 22, R36/38; R50/R53

UN No.: 3082

Class: 9

3. COMPOSITION/INFORMATION ON INGREDIENTS



MATERIAL SAFETY DATA SHEET

NO ANT RTU

Date Issued: May 2014 and is valid for 3 years from this date.

Revision: 4

Page 2 of 8

Print Date: 3/10/14

Active ingredients:

Active ingredients.	CAS No.:	EC No.:
Esbiothrin (pyrethroid) 1,0 g/l	84030-86-4	Not assigned
Deltamethrin (pyrethroid) 0,2 g/l	52918-63-5	258-256-6

Chemical Name:

Esbiothrin: (S)-3-allyl-2-methyl-4-oxocyclopent- enyl (1R,3R)-2,2-dimethyl-3-(2-methylprop-1 nyl) cyclopropanecarboxylate

Deltamethrin: (S)- α -cyano-3-phenoxybenzyl/1R,3R)-3-(2,2-dibromovinyl)-2,2- dimethylcyclopropanecarboxylate (IUPAC)

Chemical Family: Pyrethroids.

Chemical Formula:

C₁₉H₂₆O₃ [Es-biothrin]
C₂₂H₁₉Br₂NO₃ [Deltamethrin]

NIOSH/RTECS No.: Mixture

4. FIRST-AID MEASURES

Symptoms of poisoning:

Effects from overexposure result from swallowing, breathing or coming in contact with the eyes and skin. Symptoms of overexposure include numbness and tingling of hands and feet, lung oedema and convulsions. These sensations are reversible and usually subside within 24 hours.

Inhalation:

Remove the source of contamination or move victim to fresh air. The patient should be kept under observation and transported to a health center if necessary.

Skin contact:

Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with cold water and non-abrasive soap.

Eye contact:

Immediately flush eyes with a stream of clean water for at least 20 minutes, holding the eyelid(s) open.

Ingestion:

If only small amounts have been ingested, or if treatment has been delayed, oral administration of activated charcoal and cathartic probably represents optimal management. Never give anything by mouth to an unconscious person.

Note to physician:

No known specific antidote.



MATERIAL SAFETY DATA SHEET

NO ANT RTU

Date Issued: May 2014 and is valid for 3 years from this date.

Revision: 4

Page 3 of 8

Print Date: 3/10/14

Do not administer milk, cream or other substances, which contain vegetable or animal fats, as they enhance absorption of the active ingredient. Central nervous system stimulation can be controlled with sedation by eg. Barbiturates.

Reversible skin sensations (paraesthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care

5. FIRE-FIGHTING MEASURES

Fire and explosion hazard:

Product is not flammable.

Extinguishing agents:

Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Contain water used for fire fighting for later disposal.

Firefighting:

Remove container from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Water can be used to cool unaffected containers but must be contained for later disposal. Avoid inhaling hazardous vapours. Keep upwind.

Personal protective equipment:

Fire may produce irritating or poisonous vapours (toxic oxides of carbon), mists or other products of combustion. Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Do not inhale fumes. For personal protection see Section 8.

Environmental precautions:

Do not allow to enter drains or water courses. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations.

Occupational spill:

Do not allow the product to come in contact with water systems. For small liquid spills, soak up with sand or other suitable noncombustible absorbent material, and place into containers for subsequent disposal. For large spills, contain liquid far ahead of spill. Contain spillage and contaminated water for subsequent disposal. Do not flush spilled material into drains. Keep spectators away and upwind.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes and skin, and inhalation of fumes. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the insecticide gets inside. Then wash skin thoroughly using a 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.



MATERIAL SAFETY DATA SHEET

NO ANT RTU

Date Issued: May 2014 and is valid for 3 years from this date.

Revision: 4

Page 4 of 8

Print Date: 3/10/14

Storage:

Keep under lock and key and out of reach of unauthorized persons, children and animals. Store in its original labelled container in isolated, dry, cool and well-ventilated area. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering control measures:

It is essential to provide adequate ventilation. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations. If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

PERSONAL PROTECTIVE EQUIPMENT:

Respirator:

An approved respirator suitable for protection from dusts and mists of pesticides is required. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Clothing:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent skin contact with the substance.

Gloves:

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

Eye protection:

The use of safety goggles is recommended.

Emergency eye wash: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid.
Colour:	Off-white
Odour:	Slight odour.
Flammability:	Not flammable.
Explosive properties:	Not explosive.
Flash point:	None..
pH:	6.0
Density:	1.001 g/ml at 20 °C
Viscosity:	Not applicable
Solubility in water:	Soluble.

10. STABILITY AND REACTIVITY

Storage stability:

Stable for up to 2 years under normal warehouse conditions.

Incompatibility:



MATERIAL SAFETY DATA SHEET

NO ANT RTU

Date Issued: May 2014 and is valid for 3 years from this date.

Revision: 4

Page 5 of 8

Print Date: 3/10/14

This product is ready to use. Do not physically mix directly with other herbicides or pesticides.

Thermal decomposition:

Toxic oxides of carbon are produced when the product decomposes on heating.

11. TOXICOLOGICAL INFORMATION

Data as for active ingredient.

Deltamethrin:

Acute oral LD₅₀: 135-5000 mg/kg depending on carrier mg/kg in rats.

Acute dermal LD₅₀: > 2 000 mg/kg in rabbits.

Acute inhalation LC₅₀: >2.2 mg/L of air over 4 hours (rats).

Esbiothrin:

Acute oral LD₅₀: 378 female-432 mg/kg female.

Acute dermal LD₅₀: >2000 mg/kg (male and female)

Acute inhalation LC₅₀: >2.63 mg/L of air over 4 hours (rats).

Acute skin irritation: Irritating to skin.

Acute eye irritation: Eye irritant.

Dermal sensitisation: May cause tingling (finger tips and nose), nerve deadening, numbness or pain

Carcinogenicity: Not carcinogenic.

Teratogenicity: Animal studies did not detect any teratogenic effects.

Mutagenicity: Animal studies did not detect any mutagenic activity.

12. ECOLOGICAL INFORMATION

DELTA METHRIN:

Birds:

Acute oral LD₅₀: >4640 mg/kg (mallard duck).

Fish:

Deltamethrin is highly toxic to fish under laboratory conditions, but is not toxic to fish under natural conditions.

Deltamethrin had an impact on aquatic herbivorous insects.

This impact led to an increase of algae. Crustacea may be affected.

LC₅₀ (96 hr): 0.91 µg/l (rainbow trout).

Daphnia:

Toxic to *Daphnia magna*.

LC₅₀ (48 h): 0.35 µg /l.

Bees: Toxic to bees

LD₅₀(oral): 79 ng/bee(contact).

Earthworms (LC₅₀): 28.57 mg.kg soil.

Degradability:

Deltamethrin undergoes microbial degradation within 1-2 weeks. There is strong adsorption by soil colloids and no risk of leaching



MATERIAL SAFETY DATA SHEET

NO ANT RTU

Date Issued: May 2014 and is valid for 3 years from this date.

Revision: 4

Page 6 of 8

Print Date: 3/10/14

ESBIOTHRIN:

Birds LC₅₀ (in food): > 5000 mg/kg

Fish (LC₅₀ 96H)

Rainbow Trout: 13 µg/l.

Daphnia(EC₅₀ 48h): 0,0089 mg/l.

13. DISPOSAL CONSIDERATIONS

Pesticide disposal:

Contaminated absorbents, surplus product, etc., should be burned in a high- temperature incinerator (> 1000 °C) or buried in approved landfill. Hydrolysis under alkaline conditions is a suitable method to dispose of small quantities of the product. Before disposal of the resultant waste, the material must be analyzed to ensure that the active ingredient has been degraded to a safe level. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Comply with local legislation applying to waste disposal.

Package product wastes:

Emptied containers retain vapours and product residues. Observe all labelled safeguards until container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must first be triple rinsed with water, punctured and transported to a scrap metal facility for disposal.

14. TRANSPORT INFORMATION

UN NUMBER: 3082

ADR/RID:

Proper shipping name: Environmentally hazardous substance, liquid n.o.s (Pyrethriods)

Classification Code: M6

Class: 9

Packaging group: III

Hazard ID: 90

IMDG/IMO

Shipping name: Environmentally hazardous substance, liquid n.o.s (Pyrethriods)

Packaging group: III

Label of class: 9 Marine pollutant

AIR/IATA

Shipping name: Environmentally hazardous substance, liquid n.o.s (Pyrethriods)

Class: 9

Packaging Group: III

Passenger Aircraft 914 (No Limit) Y914 (max 30kg)

Cargo Aircraft 914 (No Limit)



MATERIAL SAFETY DATA SHEET

NO ANT RTU

Date Issued: May 2014 and is valid for 3 years from this date.

Revision: 4

Page 7 of 8

Print Date: 3/10/14

Tremcard number 90GM6-III

15. REGULATORY INFORMATION

Symbol: Xn, N

Indication of danger: Harmful; Dangerous to the environment.

Risk phrase(s):

R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.
R57 Toxic to bees.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S 2 Keep out of reach children.
S13 Keep away from food, drink and animal feeding stuffs.
S 20/21 When using do not eat, drink or smoke.
S24/25 Avoid contact with skin and eyes.
S37/37 Wear suitable protective clothing and gloves.
S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate containment to avoid environmental contamination.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

National Legislation:

In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).

16. OTHER INFORMATION

Compiled by: Danie Fourie

Regulatory Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.



MATERIAL SAFETY DATA SHEET

NO ANT RTU

Date Issued: May 2014 and is valid for 3 years from this date.

Revision: 4

Print Date: 3/10/14

Page 8 of 8

REFERENCES

- Similar product MSDS.
- Own data.
- The Pesticide Manual; Thirteenth Edition; Editor Clive Tomlin; Crop Protection Publications, 2003.
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.