



MATERIAL SAFETY DATA SHEET

ZERO ROACH BAIT stations

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

Page 1 of 6

Revision: 4

Print Date: 3/10/14

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Zero Roach Bait

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 bait for the control of Roaches in the Home.

2. HAZARDS IDENTIFICATION

- May cause irritation.
- Very toxic to aquatic organisms.

Routes of entry:

Ingestion, inhalation, eyes and skin contact.

Human health:

Untoward effects resulting from over-exposure are not anticipated to occur.

Skin Contact: Harmful if absorbed through skin. Avoid contact with skin or clothing. May produce symptoms similar to those from ingestion. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse

Eye Contact: Causes eye irritation. Avoid contact with eyes.

Ingestion: Harmful if swallowed. May cause shortness of breath, involuntary shaking, convulsions, excitement.

Inhalation: Harmful if inhaled. Avoid breathing dust. May produce symptoms similar to those from ingestion.

Long term effects: This product does not contain any ingredients designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.



MATERIAL SAFETY DATA SHEET

ZERO ROACH BAIT stations

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

Page 2 of 6

Revision: 4

Print Date: 3/10/14

Hazard symbols: Xn; N

Risk Phrases : R38; R48/22; R50/53

UN No: Not regulated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:

Active ingredients.	CAS No.:	EC No.:
Fipronil 0, 5 g/kg	120068-37-3	424-610-5

Chemical Name:

(±)-5-amino-1-(2,6-dichloro- α,α -trifluoro-*p*-tolyl)-4-trifluoro=methylsulfinylpyrazole-3carbonitrile (IUPAC)

Chemical Family: phenyl pyrazole

Chemical Formula: C₁₂H₄ClF₆N₄OS

NIOSH/RTECS No.:

4. FIRST-AID MEASURES

Zero Harvester Termite bait is basically harmless when handled correctly.

Symptoms of poisoning includes, respiratory difficulty, decreased reflexes, lethargy, tremors, and in severe cases, convulsions. Repeated exposure at dose levels that are not acutely toxic may result in symptoms of toxicity.

Skin Contact:

Wash the affected area with soap and water.

Eye Contact:

Flush/irrigate eyes with copious amounts of water for at least 10 minutes.

Ingestion:

Do not induce vomiting.

Check the victim's state of consciousness, breathing and pulse; put in emergency position or revive.

Obtain medical attention if more than a small quantity has been swallowed or when relevant symptoms occur after swallowing.

Inhalation:

Remove from source of exposure. Obtain medical advice if ill effects occur.

Advice to physician:

Fipronil is a reversible gamma-amino butyric (gaba) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Treat symptoms.

There is no antidote for this product. Phenobarbital and some Benzodiazepines have been shown experimentally to be effective in preventing convulsions induced by Fipronil.

5. FIRE-FIGHTING MEASURES



MATERIAL SAFETY DATA SHEET

ZERO ROACH BAIT stations

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

Page 3 of 6

Revision: 4

Print Date: 3/10/14

Extinguishing agents:

Extinguish small fires with water, carbon dioxide, dry powder, or alcohol-resistant foam. Water can be used if necessary.

Fire fighting:

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

Personal protective equipment:

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

Hazardous decomposition:

Danger of toxic gases gasses in smoke. (Carbon and Nitrogen oxides).

6. ACCIDENTAL RELEASE MEASURES

Spills:

Any spillage of this product should swept up and placed in a clean, labeled open container for safe disposal.

Depending on the degree and nature of contamination, dispose of by sending it to an authorised waste disposal facility.

Take care to avoid the contamination of watercourses and drains and inform the appropriate authority in case of accidental contamination of watercourses.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes. Avoid frequent or prolonged skin contact.

Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times.

Wash hands thoroughly after contact.

Storage Conditions:

Store under cover and in a cool place. Keep out of reach of children. Adhere to local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: There is no appropriate occupational exposure limit for this material. Avoid, as far as reasonably practicable, inhalation of vapor generated during use.

Protective Clothing:

Wear suitable gloves when handling the product over long periods.

Wash any contaminated underlying skin with soap and water.

Respiratory Protection: Wear respiratory protection if ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gel



MATERIAL SAFETY DATA SHEET

ZERO ROACH BAIT stations

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

Page 4 of 6

Revision: 4

Print Date: 3/10/14

Colour:	Chestnut
Odour:	Odourless
Flammability:	Not Flammable.
Explosive properties:	No information currently available.
Flash point:	Not applicable.
Relative density:	1.27 g/cm ³
Water solubility:	Not soluble

10. STABILITY AND REACTIVITY

Materials to Avoid:

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products:

Thermal decomposition products will vary with conditions.

Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Data based on Zero Roach bait, unless stated.

Experimental/calculated data:

Acute oral LD₅₀: > 4400 mg/kg.

Acute dermal LD₅₀: > 5000 mg/kg.

Acute inhalation LC₅₀: 0,682 mg/l air (Technical). Not applicable to the bait.

Acute skin irritation: Mild irritant.

Acute eye irritation: Could cause slight irritation to eyes.

Dermal sensitization: None.

Carcinogenicity/ Teratogenicity/ Mutagenicity:

None of the ingredients in this product is on the IARC, OSHA or NTP carcinogen list.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

No data available for formulated product.

Birds LC₅₀:

Mallard duck: >2150 mg/kg.

Pheasant: 31, 0 mg/kg

Fish:

Toxic to fish and aquatic organisms.

Fish LC₅₀:

Japanese carp: 0, 34 mg/kg

Daphnia LC₅₀: 19, 0 µg/l

Earthworms: Non-toxic to earthworms.

Mobility: Fipronil has low mobility in soil.



MATERIAL SAFETY DATA SHEET

ZERO ROACH BAIT stations

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

Page 5 of 6

Revision: 4

Print Date: 3/10/14

13. DISPOSAL CONSIDERATIONS

Product:

Where possible, arrange for product to be recycled. Depending on degree and nature of contamination, dispose of in a approved landfill site or by sending to an authorized waste facility.

Packaging:

Dispose of via an authorized person/ licensed waste disposal contractor in accordance with local regulations.

Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

14. TRANSPORT INFORMATION

U N No: Not regulated.

15. REGULATORY INFORMATION

Hazard Symbols: Xn - Harmful.
N - Dangerous for the environment.

R-phrases(s)

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

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

S35 This material and its container must be disposed of in a safe way.

S36/37 Wear suitable protective clothing and gloves.

S57 Use appropriate container to avoid environmental contamination.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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

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.



MATERIAL SAFETY DATA SHEET

ZERO ROACH BAIT stations

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Page 6 of 6

Revision: 4

Print Date: 3/10/14

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.

REFERENCES

- BASF Germany, Goliath gel MSDS, May 2009.
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.