



MATERIAL SAFETY DATA SHEET

SNAILBAN- M

Date Issued: May 2011 and is valid for 3 years from this date.

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Revision No.: 0

Print Date: 3/10/14

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: SNAILBAN-M

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 for use granular bait for the control of Snails and Slugs.

2. HAZARDS IDENTIFICATION

- May cause irritation.

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

Poisoning is unlikely to occur due to the low concentration of the molluscicide.

Eye contact:

Tests indicate the product is minimally toxic; however caution should be practiced when handling the product. The product was found to be non-irritating.

Skin contact:

Tests indicate the product is minimally toxic; however caution should be practiced when handling the product. The product was found to be non-irritating.

Ingestion: Harmful by ingestion.

Inhalation: Not possible to inhale.

Carcinogenicity/ Mutagenicity/ Neurotoxicity/ Reproductive /Teragenicity: See section 11

Symbol: Xn

Indication of danger: Not Harmful

Risk phrases: R 22

UN No: Not Regulated.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:

Active ingredients.	CAS No.:	EC No.:
Metaldehyde 15.0 g/kg	108-62-3	203-600-2
Inerts	-	-

Chemical Name: 2,4,6,8-tetramethyl-1,3,5,7-tetraoxocane (IUPAC)

Chemical Family: Polymer of Acetaldehyde.

Chemical Formula: C₈H₁₆O₄

NIOSH/RTECS No.: -

4. FIRST-AID MEASURES

Proper care should be taken during occupational use to prevent accidental contamination of food products and water.

Inhalation:

Harmful if inhaled. Do not inhale dust. However, inhalation is not applicable as a route of exposure under normal condition of use.

Skin contact:

The product may cause irritation.

Remove contaminated clothing immediately. Wash contaminated areas with soap and water followed by alcohol. Emergency personnel should wear gloves and avoid contamination. Treat respiratory difficulty with mechanical artificial respiration. Get medical attention immediately.

Eye contact:

Irrigate eyes with water or saline solution. If symptoms of poisoning occur, treat respiratory difficulty with mechanical artificial respiration and oxygen. Get medical attention immediately.

Ingestion:

Rinse mouth with water. If swallowed, do not induce vomiting since it is important that no amount of the material should enter the lungs (aspiration).

Get prompt medical attention.

Advice to physician:

No known antidote. Apply a symptomatic treatment (pumping out of the stomach, administration of active charcoal and laxative).

5. FIRE-FIGHTING MEASURES

Fire and explosion hazard:

Slight fire hazard when exposed to heat or flame. Dust-air mixtures may ignite or explode.



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Extinguishing agents:

Extinguish small fires with carbon dioxide, dry powder, Halon, water spray, or alcohol-resistant foam. Contain water used for fire fighting for later disposal

Firefighting:

Contain fire control water for later disposal. Do not scatter material, extinguish only if flow can be stopped. Use flooding amounts of water as a fog, solid streams may be ineffective. Keep upwind. Consider evacuation of downwind area if material is leaking.

Special Hazards:

Fire may produce irritating vapours (carbon monoxide, formic acid and nitrogen oxides), mists or other products of combustion.

Personal protective equipment:

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 breathe in fumes. For personal protection see Section 8.

Environmental precautions:

Do not allow entering drains or watercourses. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations.

Occupational spill:

Stop leak if you can do so without risk. For **small spills**, sweep up and place into containers for later disposal. Move containers from spill area. For **larger spills**, contain material far ahead of spill for later disposal. Ventilate closed spaces before entering.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, prolonged contact with skin. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. 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.

Storage:

The product must be kept under lock and key. Keep out of reach of unauthorised persons, children and animals. Store in its original labeled container in shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limit:

ACGIH 10 mg/m³ Nuisance dust

STEL 15 mins 10 mg/m³

TWA 8 hours 5 mg/m³



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Engineering control measures:

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:

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.

Respirator:

An approved respirator suitable for protection from dusts and mists of pesticides is adequate. 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 repeated or prolonged skin contact with the substance.

Gloves:

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

Eye protection:

The use of full-face protection 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:	Granules
Colour:	Blue or red
Odour:	None
Flammability:	Not Flammable.
Explosive properties:	No data.
Bulk Density:	No data.
pH:	Not applicable.
Solubility at 20°C (g/l):	Insoluble.

10. STABILITY AND REACTIVITY

Stability:

Stable up to 2 years under normal storage conditions. The rate of decomposition increases at higher temperatures.

Incompatibility:

The product should not be used if the soil have high pH values.

Hazardous decomposition:

Toxic oxides of Carbon and nitrogen and formic acid are released when the product decomposes on heating.

11. TOXICOLOGICAL INFORMATION



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Although tests indicate high LD₅₀ values, caution should be practiced when handling the product.

Metaldehyde technical

Acute oral LD₅₀ : 227 to 690 mg/kg in rats.

Acute dermal LD₅₀ : 2275 mg/kg to greater than 5000 mg/kg

Acute inhalation LC₅₀ : 0.2 mg/l air(4h rats).

Acute skin irritation: Slightly irritating to skin (rabbit).

Acute eye irritation: Slightly irritating to eyes (rabbit).

Dermal sensitisation: Not a skin sensitiser.

Reproductive effects: Data suggest that metaldehyde is likely to cause reproductive effects only at high levels.

Teratogenic effects: Evidence suggests that metaldehyde is unlikely to cause teratogenic effects.

Mutagenic effects: The evidence regarding mutagenicity of metaldehyde is inconclusive.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Metaldehyde:

Effects on birds:

Death of birds feeding in metaldehyde-treated areas has been reported, although the precise acute oral LD₅₀ values or subchronic dietary LC₅₀ values were unavailable .

Aquatic organisms:

Effects on aquatic organisms: Metaldehyde is reported to be practically nontoxic to aquatic organisms .

Bees: When used as directed, bait agents with 6% active ingredient are not toxic to bees.

Effects on other organisms:

The 4% pelleted bait is reported to be toxic to wildlife.

Bait pellets containing metaldehyde are attractive to dogs . Pets should be confined during application, and kept away from application and storage sites.

Breakdown in soil and groundwater: Metaldehyde is of low persistence in the soil environment, with a half-life on the order of several days]. It is weakly sorbed by soil organic matter and clay particles, and is soluble in water.

Due to its low persistence, it is not a significant risk to groundwater.

Aerobic and anaerobic micro-organisms in soil decompose metaldehyde to CO₂ and water.

Degradability:

In soil, the active ingredient is metabolized to form 1-naphthol. The half life of the product is 7-14 days in sandy loam soils and 14-28 days in clay loam. Soils with high organic matter content retain residues for longer periods than do mineral soils.

Mobility:

The product is adsorbed on soil and is unlikely to leach into water sources.

Accumulation:

The product adsorbs to soil but shows little or no tendency to bio-accumulate.

13. DISPOSAL CONSIDERATIONS

Pesticide disposal:

Use surplus product as indicated on the label.



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Contaminated surplus product, etc., should be burned at 1000°C in a high-temperature incinerator with effluent gas scrubbing. Never dispose of 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:

If container is broken, handle with rubber gloves. Emptied containers retain product residues. Observe all labeled safeguards until container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must be punctured and transported to a scrap metal facility for recycling or disposal.

14. TRANSPORT INFORMATION

UN NUMBER: Not Regulated

15. REGULATORY INFORMATION

Symbol: Xn.
Indication of danger: Harmful.

Risk phrases:
R 22 Harmful if swallowed.

Safety phrases:
S 2 Keep out of reach of children
S13 Keep away from food and animal feedingstuffs
S25 Avoid contact with eyes.
S46 If swallowed, 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.

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

- Similar product MSDS.



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- EINECS.
 - ADR 2011, Part 3.
 - IMDG Code, 2005 Edition, Vol. 2.
 - IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.