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MATERIAL SAFETY DATA SHEET

SNAILSTOP

1. COMPANY DETAILS:

Name: Small Pack Solutions
Address: No. 18 Aschenberg Street
Chamdor
Krugersdorp
Tel. Nr.: (011) 769 1300
Fax Nr.: (011) 762 5712
Emergency Tel Nr.: 083 326 3581 / 082 823 4473 **OR** 0800172743

2. PRODUCT IDENTIFICATION:

Trade Name: Snailstop
Chemical Family: Carbamates (Carbaryl)
Cyclic tetramer of acetaldehyde (Metaldehyde)
Chemical Name: 2,4,6,8-Tetramethyl-1,3,5,7-tetroxocane (Metaldehyde)
1-naphthyl-methyl carbamate (Carbaryl)
Molecular Formula: (CH₃CHO) (Metaldehyde)
C₁₂H₁₁NO₂ (Carbaryl)
UN No.: 2757
C.A.S. Nr.: [108-62-3] (Metaldehyde)
[62-25-2] (Carbaryl)
Description of product: A pellet stomach and contact poison for the control of snails and slugs.

3. COMPOSITION:

Hazardous Components:	Carbaryl	2 % m/m
	Metaldehyde	3 % m/m
	Inert ingredients	95 % m/m

4. PHYSICAL AND CHEMICAL CHARACTERISTICS:

Appearance: Blue pellets
Odour: Faint metaldehyde and mild phenolic odour.
Solubility: Insoluble in water. Pellets break down in contact with water.
pH: Not determined.

5. FIRE AND EXPLOSION HAZARD:

Flash Point: N/A
Flammability: None established
Auto ignition Temperature: Not available
Decomposition temperature: Not available

Acute Hazards: Unlikely in normal use. Toxin is mainly a reversible organophosphorous cholinesterase inhibitor.

Fire extinguishing media: Considered non- flammable; active ingredient will burn in fire situation. Dry chemical, CO₂, Foam; Water spray or fog.

Special fire fighting procedures: Smoke and fumes from fire may contain hazardous components. Use self –contained breathing apparatus and full protective clothing. Toxic fumes may be emitted when product is exposed to high temperatures or is involved in a fire situation. Water spray may be used to flush spills away from exposures. Prevent run –off from fire control or dilution from entering streams, sewers, or drinking water supply.

Special protective equipment: Do not breathe fumes. For fires in enclosed areas, fire fighters must use rubber gloves, close fitting safety goggles, effective respiratory protection when necessary, full-length protective clothing and boots should be worn when handling this material in an emergency. Toxic fumes may be given off.

6. REACTIVITY DATA:

Stability: Stable
Conditions to avoid: Excessive heat
Compatibility: Incompatible with strong oxidizers; acids

Hazardous decomposition products:

Thermal breakdown products include oxides of Nitrogen, sulphur, Acetaldehyde. Paraldehyde, carbon and calcium and methyl isocyanide. Incomplete combustion may lead to formation of carbon monoxide and /or other asphyxiants.

Conditions to avoid: None known

Environmental, Soil & water:

For Metaldehyde: Undergoes gradual depolymerisation to acetaldehyde, and evaporation or oxidation to acetic acid.

For Carbaryl: Under aerobic conditions, carbaryl at 1 ppm degraded with a half –life of 7 –14 days in a sandy loam and 14 – 28 days in a clay loam.

Environmental, Animals:

For Carbaryl: In mammals –does not accumulate in body tissues, is rapidly metabolised

to non-toxic substances, particularly 1-naphthol. This together with the glucuronic acid conjugate is eliminated predominantly in the urine and faeces.

6. REACTIVITY DATA: (continue)

Environmental, Plants:

For Carbaryl: Metabolites are 4-hydroxycarbaryl, 5-hydroxycarbaryl and methylol-carbaryl.

7. WARNINGS:

Poisonous if taken internally.

Store under lock and key away from children, animals, food and feedstuffs, seed and fertilisers.

Store in a dry, cool, well-ventilated area out of direct sunlight.

8. HEALTH HAZARD DATA: (Acute Hazards & Symptoms)

Effects of overexposure: Toxin is a reversible cholinesterase inhibitor; may cause slight eye and minimum skin irritation, salivation, vomiting, nausea, Acetonuria (acetone in urine), abdominal pain, temperature elevation, muscular rigidity and hyperventilation.

Inhalation: Avoid inhalation of dust; Toxin is a reversible cholinesterase inhibitor; may cause slight eye and minimum skin irritation, salivation, vomiting, nausea, Acetonuria (acetone in urine), abdominal pain, temperature elevation, muscular rigidity and hyperventilation; dust may be irritating to the respiratory tract.

Skin: Avoid repeated or prolonged contact; Toxin is a reversible cholinesterase inhibitor; may cause slight eye and minimum skin irritation, salivation, vomiting, nausea, Acetonuria (acetone in urine), abdominal pain, temperature elevation, muscular rigidity and hyperventilation; contact may cause skin irritation.

Eyes: May be an eye irritant, may cause tearing and redness.

Ingestion: Toxin is a reversible cholinesterase inhibitor; may cause slight eye and minimum skin irritation, salivation, vomiting, nausea, Acetonuria (acetone in urine), abdominal pain, temperature elevation, muscular rigidity and hyperventilation; may cause nausea, vomiting, abdominal pain, diarrhoea. Pinpoint pupils, blurred vision, profuse sweating, salivation, tremor muscle twitching and temporary paralysis. May be fatal if swallowed.

9. EXPOSURE CONTROLS /PERSONAL PROTECTION:

Inhalation: Avoid inhalation of dust. Use in well-ventilated areas, wear suitable approved respiratory equipment.

Skin: Wear protective clothing and impervious gloves. Wash contaminated clothing before re-use. Keep working clothes separately and do not take home. Good personal hygiene practices should always be followed.

- Eyes:** Avoid contact with eyes. Wear safety goggles. Normal industrial eye protection practices should be employed.
- Ingestion:** Keep away from food and feedstuffs. Do not eat, drink or smoke whilst handling this product. Wash hands and face before eating and drinking.

10. FIRST AID MEASURES:

- Inhalation:** Remove patient from source of poisoning to well –ventilated area and keep him quiet and reassured. If breathing stops, administer artificial respiration.
- Skin:** Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re –use.
- Eyes:** Flush with running water for at least 15 minutes while holding eyelids open. If irritation persists, get medical attention.
- Ingestion:** Keep patient calm and reassured, rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT apply direct mouth-to-mouth respiration; use a disposable protective mouthpiece. Drink 1 or 2 glasses of water or Syrup of Ipecac and induce vomiting, Never induce vomiting or give anything by mouth to an unconscious person. Keep head lower than chest to avoid aspiration into lungs. Call a physician immediately. Persons attending the victim should avoid direct contact with the vomit, wear rubber gloves and protective clothing. SEEK MEDICAL ASSISTANCE.

NOTE TO PHYSICIAN:

Treat symptomatically.

For the active constituent Metaldehyde:

Effects may be delayed. Remove metaldehyde by gastric lavage with a 2 –5 % sodium bicarbonate solution and activated charcoal, effective up to 12 – 24 hours after swallowing.

For the active constituent Carbaryl:

Atropine Sulphate, 2 – 4 mg, intravenously (IV), for adults; (0.04 – 0.08 mg /kg body weight for children) and repeat at 2 mg for adults, (0.04 mg /kg for children) every 3 – 10 minutes until adequately atropinised. Oximes, such as 2 –PAM, are contraindicated.

SEEK MEDICAL ADVISE PROMPTLY AND SHOW THIS MSDS TO MEDICAL PRACTITIONER

11. ACCIDENTAL RELEASE MEASURES:

- Notification procedures:** Report spills to appropriate authorities.
- Procedures if material is released / spilled:** Vacuum up the material, or cover with inert material (e.g. sand earth, etc.), carefully sweep up and place in labelled container for safe disposal.
- If contamination of drains, streams, water sources, etc., is unavoidable, warn the Local Water Authority immediately.

Waste disposal:

Empty containers, sweepings from spillages or excess pesticide may be accepted by local authority or waste disposal contractors. Normally suitable for disposal at approved land waste site.
Empty containers may be burned. If burned, stay out of smoke. Do not contaminate water supplies by disposal of waste or containers.

12. HANDLING AND STORAGE:

Handling /storage precaution: Avoid prolonged repeated skin contact. Do not contaminate water, food or feed by storage or disposal. Store in a secure, dry, well – ventilated separate room, building or covered area. Not for use or storage on or around home. Keep away from sources of ignition and protect from exposure to fire and heat separate from incompatible materials. Do not allow entering public sewers and water sources. If contamination of drainage systems or water sources is unavoidable, inform the appropriate authorities immediately. For use as directions on the label only. Wash thoroughly after application. Remove and wash contaminated clothing after use. Wash applicator, receptacles, etc., thoroughly before re-using with other materials.

Note:

During application and when cleaning equipment and protective clothing, contamination of all sources of drinking water, rivers, dams, crops or grazing shall be prevented.

Do not contaminate water supplies by handling or storage of product, cleaning of equipment or disposal of wastes. Keep work and storage areas clean. Do not allow pets to come in contact with product in storage or as a result of application.

13. DISPOSAL CONSIDERATION:

Contain spill; vacuum or scoop and sweep up and place in container for disposal. Material, which cannot be used at the site, should be disposed of in an approved waste disposal facility following all applicable Regulations. Completely empty containers, then dispose of empty container in a safe manner, according to Local Regulations. Do not contaminate water supplies by disposal of wastes or containers.

14. TRANSPORTATION DATA:

Hazardous description label:	Carbamate Pesticide, solid, toxic #. Keep away from foodstuff. Do not transport with food and feedstuff.
UN Hazard Class:	6.1
UN Packing Group:	III

15. ENVIRONMENTAL DATA:

This substance may be hazardous to the environment; special attention should be given to fish, honeybees.

16. OTHER INFORMATION:

HARMFUL IF SWALLOWED.

HARMFUL IF INHALED

MAY CAUSE SKIN IRRITATION ON PROLONGED, REPEATED SKIN CONTACT.

AVOID BREATHING OF DUST.

FIRST AID: IF SWALLOWED CALL DOCTOR IMMEDIATELY.

NEVER GIVE ANYTHING TO AN UNCONSCIOUS PERSON.

IF INHALED, REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE
ARTIFICIAL RESPIRATION AND CALL A DOCTOR.

IN CASE OF SKIN CONTACT, WASH CONTAMINATED AREAS WITH SOAP AND
WATER. REMOVE CONTAMINATED CLOTHING. WASH BEFORE RE -USE.