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## MATERIAL SAFETY DATA SHEET

### Ant Vanish Granules

#### 1. COMPANY DETAILS:

**SUPPLIER: EFEKTO**

PO Box 652147

Benmore

2010

**TEL No.** 011 287 7500

**EMERGENCY TELEPHONE NUMBERS:**

**SPILLAGES:** 083 1233 911

**Fax:** 086 685 3129

**POISONINGS:**

Tygerberg Hospital National Poison Centre 021-9316129 (all hours)

Griffon Poison Centre 082 446 8946

#### 2. PRODUCT IDENTIFICATION:

**Trade Name:** Ant Vanish Granules

**Chemical Family:** Insecticide

**Chemical Name:** 5,5-Dimethylperhydropyrimidin-2-One-4-trifluoromethyl-a-(4-trifluoromethylstyryl)=cinnamylidenehydrazone

**Molecular Formula:** C<sub>25</sub>H<sub>24</sub>F<sub>6</sub>N<sub>4</sub>

**Molecular weight:** 494.5

**C.A.S. Nr.:** [67485-29-4]

### 3. COMPOSITION AND INGREDIENTS INFORMATION:

**Hazardous Components:** Hiramethylnon 12 g/kg  
**Usage:** Ready-to-use bait insecticide

### 4. FIRST AID MEASURES

**Eye contact:** Rinse immediately with clean water for at least 15 minutes and obtain medical attention.

**Skin contact:** Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried.

**Ingestion:** Wash out mouth with water. Keep patient at rest and seek medical advice. Do not induce vomiting.

**Inhalation:** If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried.

**Note to Physician:** Gastric lavage does not seem to be mandatory in regard of the low toxicity of the compound. However, the application of activated charcoal and sodium sulphate is always advisable in significant circumstances.

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**  
Water spray, carbon dioxide, dry powder, foam.

**Extinguishing media which must not be used for safety reasons:**  
High volume water jet.

**Specific hazards during firefighting:**  
In case of fire the evolution of dangerous gases is possible.

**Special protective equipment for fire-fighters:**  
In the event of fire and/ or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.

**Further information:**  
Remove product from areas of fire, or otherwise cool containers with water in order to avoid

pressure being built up due to heat. Whenever possible, contain fire-fighting water by bunding area with sand or earth.

## 6. ACCIDENTAL RELEASE MEASURES

Dealing with spills and disposals, it may result in the potential for increased personal exposure. Protective clothing and equipment should be worn. Avoid contact with spilled material or contaminated surfaces. Contain spills, sweep up or shovel and place in properly labeled sealed drums for safe disposal. Prevent spillage from entering drains and water courses. Deal with all spillages immediately. Issue the necessary warnings to the local water authority in the event of unavoidable contamination to drains, streams, watercourses etc.

## 7. HANDLING AND STORAGE

**Handling:** Wear suitable gloves when handling unopened containers. Wash thoroughly with soap and water after handling and before eating, drinking or smoking. Keep out of reach of children, Avoid contact with eyes, skin and clothing. Wear long sleeved overalls and gloves when handling.

**Storage:** Keep out of reach of children, animals and uninformed persons. Store in a cool, well ventilated, locked place out of reach of children. Do not store in direct sunlight. Store in original packs / containers.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure standards:** No occupational exposure standards have been established for the product or its ingredients.

**Engineering controls:** Control process conditions to avoid contact.

**Respiratory protection:** None required when handling the product.

**Hand protection:** Wear chemical resistant PVC or nitrile gloves.

**Eye Protection:** Wear safety goggles with imperforated side shield or goggles during manufacturing or spillage control. Not required during normal use.

**Other:** Wear appropriate foot-wear for the situation in which the product is applied.

## 9. PHYSICAL AND CHEMICAL CHARACTERISTICS:

<b>Physical state:</b>	Granules
<b>Color:</b>	Yellow / brown
<b>Odor:</b>	Slight stuffy odor
<b>Boiling point:</b>	Not available
<b>Density:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Solubility in water:</b>	Not soluble
<b>pH:</b>	Not applicable
<b>Flash Point:</b>	Not flammable

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use. No dangerous reaction known under normal conditions.
<b>Hazardous polymerisation:</b>	None
<b>Conditions to avoid:</b>	Extreme heat and fire, AND DIRECT SUNLIGHT.
<b>Incompatibility materials:</b>	In the event of fire, hydrogen fluoride, oxides of carbon and nitrogen may be released.

## 11. POTENTIAL HEALTH EFFECTS

<b>Inhalation:</b>	Due to the nature of this product, inhalation is unlikely.
<b>Skin contact:</b>	Irritation to the skin is unlikely.
<b>Eye contact:</b>	May irritate the eyes.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Other:</b>	None

## 12. ANIMAL TOXICITY DATA (FORMULATED PRODUCT)

**Oral toxicity:** LD<sub>50</sub> rat > 94,250.000 mg/kg

**Dermal toxicity:** LD<sub>50</sub> rat > 416,666.667 mg/kg

**Inhalation toxicity:** LC<sub>50</sub> (4h) rat: 416.667 mg/l

**Skin irritation:** Not irritating to skin

**Eye irritation:** Not irritating to eyes

**Sensitisation:** None sensitizing

**Chronic:** In two year feeding studies with hydramethylnon in rats the NOEL was 50 mg/kg diet. Hydramethylnon is not mutagenic and not teratogenic.

## 13. ECOLOGICAL INFORMATION

**Fish toxicity:** Hydramethylnon: LC<sub>50</sub>: 1.70 mg/l (96 h) bluegill sunfish

Hydramethylnon: LC<sub>50</sub>: 0.16 mg/l (96 h) rainbow trout

**Daphnia toxicity:** Hydramethylnon: LC<sub>50</sub>: 1.14 mg/l (48 h) Daphnia magna

**Toxicity to algae:** Not available

**Bird toxicity:** Hydramethylnon: LC<sub>50</sub>: >2510 mg/kg mallard ducks

Hydramethylnon: LC<sub>50</sub>: 1828 mg/kg bobwhite quail

**Bee toxicity:** Non-toxic topically to honey bees at 0.03 mg/bee

**Environmental fate:** Hydramethylnon has low solubility in water and is rapidly degraded in sunlight.

## 14. ECOLOGICAL DATA TECHNICAL HYDRAMETHYLNON

**Mobility:** Immobile in soil. Does not leach to groundwater.

**Persistence / Degradability:** Soil DT<sub>50</sub> 7 days (loam), water DT<sub>50</sub> 24 to 33 days (pH4.9), 10 to 11 days (pH 7.03), 11 to 12 days (pH 8.87). Photolysis DT<sub>50</sub> 1 hour.

**Bio-accumulation:** Log P= 2.31. Has a low potential for bioaccumulation.

**Aquatic toxicity:** 96 hour LC<sub>50</sub> rainbow trout 0.16 mg/l, bluegill sunfish 1.7 mg/l, 48 hour EC<sub>50</sub> daphnia 1.14 mg/l.

## 15. WARNINGS

Avoid all contact by mouth or with skin. May irritate skin.

Toxic to fish.

Keep out of reach of children, animals and uninformed persons.

Store in a cool, dry place, away from food and feedstuffs.

Do not allow to freeze.

## 16. DISPOSAL CONSIDERATIONS

Product disposal: Dispose of empty container by wrapping in paper, placing in plastic bag and putting in the garbage. DO NOT burn empty containers or product.

## 17. TRANSPORT INFORMATION

Proper shipping name: Not applicable

Class and Subsidiary risk: This product is not classified as Dangerous Goods

Packing Group: Not applicable

Hazchem code: Not applicable

Marine pollutant: No

ADNR: Not dangerous goods

ADR: Not dangerous goods

GGVE: Not dangerous goods

IATA\_C: Not dangerous goods

IATA\_P: Not dangerous goods

IMDG: Not dangerous goods

RID: Not dangerous goods

## 18. REGULATORY INFORMATION

Risk phrases: R51

Safety phrases: S2, 3, 13, 20/21, 24, 37, 38

WHO Class: III (moderately hazardous)

SA Class: IV (acute hazard unlikely in normal use)