



MATERIAL SAFETY DATA SHEET TROJAN ANT BAIT

1. COMPANY DETAILS:

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2. PRODUCT IDENTIFICATION:

Trade Name: Trojan Ant Bait
Chemical Family: Insecticide
Chemical Name: 5,5-Dimethylperhydropyrimidin-2-One-4-trifluoromethyl-a-(4-trifluoromethylstyryl)=cinnamylidenehydrazone
Molecular Formula: C₂₅H₂₄F₆N₄
Molecular weight: 494.5
C.A.S. Nr.: [67485-29-4]

3. COMPOSITION AND INGREDIENTS INFORMATION:

Hazardous Components: Hyramethylnon 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:

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

10. STABILITY AND REACTIVITY

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

11. POTENTIAL HEALTH EFFECTS

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

12. ANIMAL TOXICITY DATA (FORMULATED PRODUCT)

Oral toxicity: LD₅₀ rat > 94,250.000 mg/kg
Dermal toxicity: LD₅₀ rat > 416,666.667 mg/kg
Inhalation toxicity: LC₅₀ (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: LC₅₀: 1.70 mg/l (96 h) bluegill sunfish
Hydramethylnon: LC₅₀: 0.16 mg/l (96 h) rainbow trout

Daphnia toxicity: Hydramethylnon: LC₅₀: 1.14 mg/l (48 h) Daphnia magna

Toxicity to algae: Not available

Bird toxicity: Hydramethylnon: LC₅₀: >2510 mg/kg mallard ducks
Hydramethylnon: LC₅₀: 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 DT₅₀ 7 days (loam), water DT₅₀ 24 to 33 days (pH4.9), 10 to 11 days (pH 7.03), 11 to 12 days (pH 8.87). Photolysis DT₅₀ 1 hour.

DATE ISSUED: 5 May 2011

UPDATED BY: U Potgieter

UPDATED: 12 April 2015

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

Aquatic toxicity: 96 hour LC₅₀ rainbow trout 0.16 mg/l, bluegill sunfish 1.7 mg/l, 48 hour EC₅₀ 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)