Date Issued: Supersedes:

MATERIAL SAFETY DATA SHEET GRANT'S KILLS ANTS & ROACHES Bait

Company:	Grant Laboratories, Inc.
Address:	14688 Washington Ave., San Leandro, CA 94578
Emergency Phone:	1-800-265-0761

Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name:	GRANT'S KILLS ANTS & ROACHES Bait
Chemical Name/Synonym:	Hydramethylnon; Tetrahydro-5,5-dimethyl-2(1H)-pyrimidone [3-[4- (trifluoromethyl)phenyl]-1-[2-[4-(trifluoromethyl)phenyl]ethenyl]-2- propenylidene]hydrazone
Chemical Family:	Amidinohydrazone
Formula:	$C_{25}H_{24}F_6N_4$
EPA Registration No.:	2724-498-1663
RF Number:	RF2018

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component (chemical, common name)	<u>CAS</u> <u>Number</u>	<u>Weight</u>	Tolerance
Hydramethylnon; Tetrahydro-5,5-dimethyl-2(1H)-pyrimidone [3-[4- (trifluoromethyl)phenyl]-1-[2-[4-(trifluoromethyl)phenyl]ethenyl]-2- propenylidene]hydrazone	67485-29-4	2.15%	1.4 MG/M ³ (TWA)
Inert Ingredients		97.85%	

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENTS KEEP OUT OF REACH OF CHILDREN Do not apply to areas accessible to children or pets.

CAUTION: May be harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Keep away from food, feedstuffs, and domestic water supplies.

CAUTION: SIGNS AND SYMPTOMS OF OVEREXPOSURE

PRIMARY ROUTE OF I	ENTRY <u>De</u>	rmal/Eye: Yes	Oral: Yes	Inhalation:	No
ACUTE TOXICITY	Oral:	LD50 = 1,146 mg/kg	body weight (technical r	material)	
	Dermal:	LD50 = >2,000 mg/kg	g body weight (technical	l material)	
	Inhalation:	LC50 (4-hour) = 2.9	mg/L (technical materia	l)	

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation:	Not a skin irritant
Eye Irritation:	Moderate eye irritant

Sensitizer: Not a known sensitizer

4. FIRST AID MEASURES	
Ingestion:	Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Product contains peanuts. If ingestion should occur and result in an allergic reaction, treat symptomatically.
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes.
Eye:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Inhalation:	Remove person to fresh air. If not breathing, give artificial respiration,
Note to Physician	preferably mouth to mouth. This product contains Peanut Butter. Treat symptomatically.

5. FIRE FIGHTING MEASURES

NFPA Rating:	Health: (D	Fire:	0	Reactivity:	0
Flammability Class:	Not applicab	ble				
Flash Point:	Not applicab	ole, (solid materi	al).			
Explosive Limits (% of Volume):	Unknown					
Extinguishing Media:	Water fog, fo	oam, CO2.				
Special Protective Equipment:	Use positive equipment	e pressure self c	ontaine	d breathing a	pparatus and	full protective
Fire Fighting Procedures:	Normal proc sewers.	edures. Do not	allow w	ater from fire	fighting areas	to enter
Combustion Products:	None Knowr	n				
Unusual Fire/Explosion Hazards:	Toxic irritatir	ng gases may be	e forme	d above 1600	C (320F).	

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken:	Sweep up and place in suitable container for disposal.
Absorbents:	If in liquid form, use clay granules, sawdust, dirt or equivalent.
Incompatibles:	Alkaline Materials

7. HANDLING AND STORAGE

Handling:	Users should wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using toilet. Contaminated clothing should be washed before reuse.
Storage:	Do not contaminate water, food or feed by storage. Store in original container out of the reach of children and pets. Do not store above 100°F for extended periods of time. If container is damaged or if a spill occurs, use product immediately or dispose of product and damaged container.

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Hydramethylnon 1.4 MG/M³ (TWA)

Ventilation:	Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.
Personal Protective Equipment:	Applicators and other handlers must wear long sleeved shirt and long pants, water proof gloves and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Light brownish to yellow semi solid with peanut butter odor
Boiling Point:	Not applicable
Melting Point:	Not applicable
Vapor Pressure (mm Hg):	Not applicable
Vapor Density (Air = 1):	Not applicable
Specific Gravity:	1.11
Bulk Density:	9.2 pounds per gallon
Solubility:	Not soluble in water

Evaporation Rate: Not volatile

pH: Not soluble in water

10. STABILITY AND REACTIVITY

Stability:	Stable
Reactivity:	Not reactive
Incompatibility w/ Other Materials:	None
Decomposition Products:	Combustion may produce hydrogen fluoride and oxides of carbon and nitrogen.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

In a chronic study of rats with hydramethylnon the only compound related effects observed were organ weight changes. The NOEL was determined to be 50 ppm.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]

In a 2-generation reproduction study with hydramethylnon in Sprauge-Dawley rats, the NOEL for effects on male reproduction was 25 ppm. No reproductive or developmental effects are expected at exposure levels associated with the use of this product.

MUTAGENICITY [Specific to Active Ingredient(s)]

Hydramethylnon is not mutagenic.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Active Ingredients Only]

Hydrolysis: Stable to hydrolysis at pH 5, 7, and 9

Photolysis: Not determined

Soil half life: Not determined

Water solubility: Insoluble

ECOTOXICITY [Active Ingredients Only]

Acute Toxicity: This product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by disposal.

Pesticide Disposal: Waste resulting from the use of this product may be disposed of according to use directions or at an approved waste disposal facility.

Container Disposal: Wrap used container and place in trash can.

14. TRANSPORT INFORMATION

DOT49CFR Description: Not Regulated

Freight Classification: Insecticides N.O.I. O/T Poison NMFC 102120 Class 60

15. REGULATORY INFORMATION

CERCLA (Superfund): Not Regulated RCRA: Not Regulated

SARA 313: Yes (hydramethylnon)

SARA 311/312 HAZARD CATEGORIES

Immediate Health:	Yes
Delayed Health:	No
Fire:	No
Sudden Pressure:	No
Reactivity:	No

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.