



MAXFORCE® Roach Control System

MSDS Version 1.0

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name MAXFORCE® Roach Control System
Chemical Name
Synonym
MSDS Number 1884
Chemical Family
Chemical Formulation
EPA Registration No. 432-1251
Canadian Registrat. No. 19526

Bayer CropScience Inc
 #100 - 3131 - 114th Avenue SE
 Calgary, AB T2Z 3X2
 Canada

Emergency Number (24 Hours/Day): 1-800-334-7577 Product Information: 1-888-283-6847

Product Use Description The following data were derived from the American Cyanamid MSDS for Hydramethylnon Issue Date March 3, 1991.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Hydramethylnon	67485-29-4	2.0000	
Other ingredients		98.0000	

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution. Keep out of reach of children and animals. Hazard to humans and domestic animals. May be harmful if swallowed.
 The formulation is packaged in a child-resistant container.

Odor odorless

Immediate Effects

Skin May be minimally irritating to the skin following prolonged direct contact. Not acutely toxic upon dermal exposure.

Ingestion Not acutely toxic upon oral exposure. May be harmful if swallowed.

Material Safety Data Sheet

MSDS Number: 000000001884
MSDS Version 1.0

MAXFORCE® Roach Control System

Medical Conditions Aggravated by Exposure No known health conditions are aggravated by exposure to this product.

Signs and Symptoms Effects resulting from over-exposure are not anticipated to occur.

SECTION 4. FIRST AID MEASURES

Ingestion Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger, or by giving 1 ounce of syrup of ipecac, if available. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point > 94 °C / > 201 °F
Method: Tagliabue Closed Cup
Not flammable or explosive

Fire and Explosion Hazards Avoid heavy hose streams, airborne dusts of the active ingredient, Hydramethylnon, may create explosive hazard.

Suitable Extinguishing Media water, foam, carbon dioxide (CO₂), dry chemical

Fire Fighting Instructions Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing.

Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent pesticide run-off. Use spray or fog - solid stream may cause spreading.

Conduct fire fighting and rescue operations from upwind of the fire area. Evacuate people downwind who may come in contact with smoke, fumes, or contaminated surfaces. Do not decontaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Section 8. Decontaminate emergency personnel with soap and water before leaving the fire area.

Avoid breathing dusts, vapors and fumes from burning materials. Alert medical personnel to be ready to treat for pesticide poisoning. Control run-off water - if water enters a drainage system, advice the authorities downstream.

Dust Explosion Class The active ingredient, Hydramethylnon has been treated in a 20-liter spherical bomb (per NFPA 68-1978) and has been found to be a Class 2 dust explosive hazard. If the material is further processed, the dust explosion hazard may change and it should be retested.

Material Safety Data Sheet

MAXFORCE[®] Roach Control System

MSDS Number: 000000001884
MSDS Version 1.0

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal Non-hazardous waste. Wear appropriate gear for the situation. See Personal Protection information in Section 8. Sweep up spilled material. Place in a container for disposal. Flush with water.

SECTION 7. HANDLING AND STORAGE

Handling Procedures

Storing Procedures Do not contaminate water, food, or feed by storage or disposal. Store in a secure, dry well-ventilated separate room, building or covered area. Keep away from sources of ignition and protect from exposure to fire and heat.

Work/Hygienic Procedures Employees engaged in handling bulk quantities of Hydramethylnon should remove clothing and shower prior to exiting the work site. All employees working with the material should wash their hands prior to consuming food or tobacco products.

A NIOSH-approved respirator must be worn by employees where it is not feasible to use engineering controls and employee-exposure exceeds 1.4 mg/m³.

A NIOSH-approved cartridge respirator for pesticides is acceptable for exposure up to 10 X the TWA. Use a NIOSH-approved air or self-contained pressure demand respirator for higher levels of exposure.

Food, gum and tobacco products should not be allowed in areas where material is being processed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Local exhaust ventilation

Eye/Face Protection Dust-proof goggles are recommended for employees engaged in operations where there is a risk of accidental exposure to eyes from the active ingredient, Hydramethylnon,.

Body Protection Normal work clothing, like cloth overalls, is indicated.

Respiratory Protection A NIOSH-approved respirator must be worn by employees where it is not feasible to use engineering controls and employee-exposure exceeds 1.4 mg/m³.

General Protection All electrical wiring and equipment should meet the provisions of NFPA-70.

Exposure Limits

Material Safety Data Sheet

MAXFORCE® Roach Control System

MSDS Number: 000000001884
MSDS Version 1.0

None Established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor	odorless
Specific Gravity	1.4
Melting/Freezing Point	60 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	This material is stable under normal handling and storage conditions described in Section 7.
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SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	The active ingredient, Hydramethylnon Male Rat: LD50: 1,131 mg/kg Moderately toxic.
Acute Dermal Toxicity	The active ingredient, Hydramethylnon Rabbit: LD50: > 5,000 mg/kg Practically non-toxic.
Acute Inhalation Toxicity	The active ingredient, Hydramethylnon Practically nonhazardous.
Skin Irritation	The active ingredient, Hydramethylnon Rabbit: Mild to moderate skin irritation. Subacute dermal studies in which rabbits were exposed to the active ingredient at levels of 250 mg/kg/day for 21 days did not reveal any adverse findings.
Eye Irritation	The active ingredient, Hydramethylnon Rabbit: Reversible irritation after 24-hour wash phase. No irritation after a 20-second wash phase.
Chronic Toxicity	The active ingredient, Hydramethylnon No conclusive oncogenic effects were observed in mice and rats at any dose level tested. However, under microscopic examination, from chronic feeding studies in rats, mice and dogs, there was wasting of muscle and subcutaneous fat as well as testicular atrophy in high dose males. Decreased body weight, anorexia and signs of emaciation were prominent in high dose feeding groups (200 ppm)

Material Safety Data Sheet

MAXFORCE® Roach Control System

MSDS Number: 000000001884
MSDS Version 1.0

Assessment Carcinogenicity

ACGIH

None

NTP

None

IARC

None

OSHA

None

Reproductive & Developmental Toxicity

In a multi-generation reproduction study, reproductive performance was not compromised by hydramethylnon administration. However, all high dose treatment groups (200 ppm) exhibited decreased body weights, anorexia and poor fertility.

Teratogenicity

No teratogenic effects were found at any dose level tested in albino rats. However, at the dose level of 30 mg/kg/day (highest dose tested), hydramethylnon produce both maternal and embryotoxic effects.

Mutagenicity

Technical Hydramethylnon was examined in the Ames mutagenicity test and was found to be nonmutagenic. Similar results were achieved in a Dominant Lethal Test conducted in male rats treated with hydramethylnon by gavage for 5-days.

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information

For ecotoxicological data call the product information phone number listed in Section 1.

Environmental Fate

For chemical fate data call the product information phone number listed in Section 1.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Dispose in accordance with all local, state/provincial and federal regulations.

Container Disposal

Do not remove bait from container. Wrap used container and put in a trash can.

RCRA Classification

Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

TDG (Canada): Not regulated for road or rail.

Material Safety Data Sheet

MAXFORCE® Roach Control System

MSDS Number: 000000001884
MSDS Version 1.0

SECTION 15. REGULATORY INFORMATION

US Federal

EPA Registration No. 432-1251

TSCA list

None

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

None

US States Regulatory

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State right-to-know ingredients

None

Canadian Regulations

Canadian Registrat. No. 19526

Canadian Domestic Substance List

None

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

None

European Inventory of Existing Commercial Substances (EINECS)

None

SECTION 16. OTHER INFORMATION

Company transfer and new product.

Prepared by the HSE Department Bayer CropScience Inc. (1-306-721-0310)

Material Safety Data Sheet

MAXFORCE® Roach Control System

MSDS Number: 000000001884
MSDS Version 1.0

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