

**Material Safety Data Sheet****MAXFORCE® PROFESSIONAL INSECT CONTROL®  
ROACH KILLER BAIT GEL**

MSDS Number: 102000001393

MSDS Version 2.2

Revision Date: 05/13/2011

Print Date: 05/13/2011

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product name** MAXFORCE® PROFESSIONAL INSECT CONTROL® ROACH KILLER BAIT GEL  
**MSDS Number** 102000001393  
**EPA Registration No.** 432-1254

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-800-331-2867

**SECTION 2. HAZARDS IDENTIFICATION**

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

**Emergency Overview**

Caution! Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes and clothing. Keep exposed gel away from open food and food contact surfaces.

**Physical State** gel

**Odor** odourless

**Appearance** brown

**Exposure routes** Ingestion, Skin Absorption, Eye contact

**Immediate Effects**

**Eye** May be minimally irritating following prolonged direct contact. Do not get in eyes.

**Skin** May be minimally irritating following prolonged direct contact. Avoid contact with skin and clothing.

**Ingestion** Harmful if swallowed. Do not take internally.

**Chronic or Delayed  
Long-Term**

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| <u>Hazardous Component Name</u> | <u>CAS-No.</u> | <u>Average % by Weight</u> |
|---------------------------------|----------------|----------------------------|
| Hydramethylnon                  | 67485-29-4     | 2.15                       |
| Oleic acid                      | 112-80-1       | 2.04                       |
| Starch                          | 9005-25-8      | 1.00                       |

**SECTION 4. FIRST AID MEASURES**

|                                         |                                                                                                                                                                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>                          | When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.                                                                                                                            |
| <b>Eye</b>                              | 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. Call a physician or poison control center immediately.                                       |
| <b>Skin</b>                             | Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician or poison control center immediately.                                                                               |
| <b>Ingestion</b>                        | Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. |
| <b>Inhalation</b>                       | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.                                                      |
| <b>Notes to physician<br/>Treatment</b> | There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.                                                                                                                       |

**SECTION 5. FIRE FIGHTING MEASURES**

|                                 |                   |
|---------------------------------|-------------------|
| <b>Flash point</b>              | no data available |
| <b>Autoignition temperature</b> | no data available |
| <b>Lower Flammability Limit</b> | no data available |
| <b>Upper Flammability Limit</b> | no data available |
| <b>Explosiveness</b>            | no data available |



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#### Fire and Explosion Hazards

Dangerous gases are evolved in the event of a fire.

#### Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

#### Methods for cleaning up

The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

#### Additional advice

Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

## SECTION 7. HANDLING AND STORAGE

#### Handling procedures

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Use only in area provided with appropriate exhaust ventilation.

#### Storing Procedures

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight.

#### Work/Hygienic Procedures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.



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#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                                                                                                                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Protection</b>     | Follow all label instructions. Train employees in safe use of the product.<br><br>Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry. |
| <b>Eye/Face Protection</b>    | Tightly fitting safety goggles                                                                                                                                                                                                                                                 |
| <b>Hand protection</b>        | Chemical resistant nitrile rubber gloves                                                                                                                                                                                                                                       |
| <b>Body Protection</b>        | Wear long-sleeved shirt and long pants and shoes plus socks.                                                                                                                                                                                                                   |
| <b>Respiratory protection</b> | When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.                                                               |

#### Exposure Limits

|                |            |          |        |           |
|----------------|------------|----------|--------|-----------|
| Hydramethylnon | 67485-29-4 | TX ESL   | ST ESL | 14 ug/m3  |
|                |            | TX ESL   | AN ESL | 1.4 ug/m3 |
|                |            | TX ESL   | ST ESL | 14 ug/m3  |
|                |            | TX ESL   | AN ESL | 1.4 ug/m3 |
| Starch         | 9005-25-8  | ACGIH    | TWA    | 10 mg/m3  |
|                |            | NIOSH    | REL    | 5 mg/m3   |
|                |            | NIOSH    | REL    | 10 mg/m3  |
|                |            | OSHA Z1  | PEL    | 5 mg/m3   |
|                |            | OSHA Z1  | PEL    | 15 mg/m3  |
|                |            | OSHA Z1A | TWA    | 5 mg/m3   |
|                |            | OSHA Z1A | TWA    | 15 mg/m3  |
|                |            | TX ESL   | ST ESL | 50 ug/m3  |
|                |            | TX ESL   | AN ESL | 5 ug/m3   |
|                |            |          | TWA    | 15 mg/m3  |
|                |            |          | TWA    | 5 mg/m3   |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                       |                   |
|-----------------------|-------------------|
| <b>Appearance</b>     | brown             |
| <b>Physical State</b> | gel               |
| <b>Odor</b>           | odourless         |
| <b>pH</b>             | 6.5 - 7.5         |
| <b>Vapor Pressure</b> | no data available |

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|                                 |                                     |
|---------------------------------|-------------------------------------|
| <b>Vapor Density (Air = 1)</b>  | no data available                   |
| <b>Density</b>                  | ca. 1.10 g/cm <sup>3</sup> at 20 °C |
| <b>Evaporation rate</b>         | no data available                   |
| <b>Boiling Point</b>            | no data available                   |
| <b>Melting / Freezing Point</b> | no data available                   |
| <b>Water solubility</b>         | partly soluble                      |
| <b>Minimum Ignition Energy</b>  | no data available                   |

**SECTION 10. STABILITY AND REACTIVITY**

|                                             |                                                                                      |
|---------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Conditions to avoid</b>                  | Extremes of temperature and direct sunlight.                                         |
| <b>Incompatibility</b>                      | no data available                                                                    |
| <b>Hazardous<br/>Decomposition Products</b> | toxic gases/vapours                                                                  |
| <b>Hazardous reactions</b>                  | No hazardous reactions when stored and handled according to prescribed instructions. |
| <b>Chemical Stability</b>                   | Stable under recommended storage conditions.                                         |

**SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredient, hydramethylnon.

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Acute oral toxicity</b>   | rat: LD50: > 5,000 mg/kg                                                                        |
| <b>Acute dermal toxicity</b> | rabbit: LD50: > 2,000 mg/kg                                                                     |
| <b>Skin irritation</b>       | rabbit: No skin irritation                                                                      |
| <b>Eye irritation</b>        | rabbit: No eye irritation                                                                       |
| <b>Sensitisation</b>         | guinea pig: Non-sensitizing.                                                                    |
| <b>Chronic toxicity</b>      | Hydramethylnon caused testicular and/or lung effects in chronic studies in mice, rats and dogs. |

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Hydramethylnon has been classified by U.S. EPA as a Group C-possible human carcinogen based on lung tumors observed in mice. Rats treated with hydramethylnon did not show a carcinogenic potential.

**ACGIH**

Starch

9005-25-8

Group A4

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Reproductive toxicity**

REPRODUCTION: Hydramethylnon is a reproductive toxicant at doses producing systemic toxicity.

DEVELOPMENTAL TOXICITY: Hydramethylnon was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed but were considered secondary to maternal toxicity.

**Assessment  
neurotoxicity**

Hydramethylnon neurotoxicity studies are not required at this time.

**Mutagenicity**

Hydramethylnon was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**SECTION 12. ECOLOGICAL INFORMATION****Environmental  
precautions**

Do not allow to get into surface water, drains and ground water. Apply this product as specified on the label.

**SECTION 13. DISPOSAL CONSIDERATIONS****General Disposal  
Guidance**

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.

**Container Disposal**

Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.

**RCRA Information**

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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**SECTION 14. TRANSPORT INFORMATION**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

**SECTION 15. REGULATORY INFORMATION**

EPA Registration No. 432-1254

**US Federal Regulations****TSCA list**

|            |           |
|------------|-----------|
| Oleic acid | 112-80-1  |
| Starch     | 9005-25-8 |

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

|                |            |      |
|----------------|------------|------|
| Hydramethylnon | 67485-29-4 | 1.0% |
|----------------|------------|------|

**US States Regulatory Reporting****CA Prop65**

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

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

|                |            |                          |
|----------------|------------|--------------------------|
| Hydramethylnon | 67485-29-4 | Male reproductive toxin. |
|----------------|------------|--------------------------|

**US State Right-To-Know Ingredients**

|                |            |            |
|----------------|------------|------------|
| Hydramethylnon | 67485-29-4 | NJ         |
| Oleic acid     | 112-80-1   | RI         |
| Starch         | 9005-25-8  | IL, MN, RI |

**Canadian Regulations****Canadian Domestic Substance List**

|            |           |
|------------|-----------|
| Oleic acid | 112-80-1  |
| Starch     | 9005-25-8 |

**Environmental****CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**



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None.

#### International Regulations

##### European Inventory of Existing Commercial Substances (EINECS)

Starch

9005-25-8

#### SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1

Flammability - 1

Reactivity - 1

Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1\*

Flammability - 1

Physical Hazard - 0

PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Updated for general editorial purposes. The following sections have been revised:  
Section 16: Other Information.

Revision Date: 05/13/2011

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