



Material Safety Data Sheet
MAXFORCE QUANTUM ANT BAIT

MSDS Number: 102000018213
 MSDS Version 1.0
 Revision Date: 11/30/2010

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name MAXFORCE QUANTUM ANT BAIT
MSDS Number 102000018213

Bayer CropScience Inc
 #200, 160 Quarry Park Blvd, SE
 Calgary, Alberta T2C 3G3
 Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
 For Product Information call: 1-888-283-6847

SECTION 2. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before re-use.

Physical State highly viscous gel
Odor weak characteristic
Appearance colourless to yellowish
Exposure routes Skin contact, Skin Absorption, Eye contact
Immediate Effects
 Eye Moderate eye irritation. Do not get in eyes.
 Skin Harmful if absorbed through skin. Avoid contact with skin and clothing.
Chronic or Delayed Long-Term This product or its components may have target organ effects.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	0.03

SECTION 4. FIRST AID MEASURES



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General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment. 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.
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. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	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. Do not leave victim unattended.
Notes to physician Treatment	Treat symptomatically. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	No flash point - Determination conducted up to the boiling point.
Autoignition temperature	no data available
Lower Flammability Limit	no data available
Upper Flammability Limit	no data available
Explosiveness	Not explosive 92/69/EEC, A.14 / OECD 113
Fire and Explosion Hazards	In the event of fire the following may be released: Carbon monoxide (CO)
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet



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Fire Fighting Instructions 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 diking area with sand or earth. 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. In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Keep unauthorized people away.

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). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

Additional advice Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

Handling procedures No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

Storing Procedures Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only.

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

Keep away from food, drink and animal feedingstuffs.

Work/Hygienic Procedures When using, do not eat, drink or smoke. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again.

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



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Min/Max Storage Temperatures Recommended minimum transport/storage temperature: 0 °C / 32 °F
 Recommended maximum transport/storage temperature: 40 °C / 104 °F

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye/Face Protection Safety glasses with side-shields
 or
 Goggles

Hand protection Chemical resistant nitrile rubber gloves

Body Protection Wear long-sleeved shirt and long pants and shoes plus socks.

Respiratory protection 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

Imidacloprid	138261-41-3	OES BCS*	TWA	0.7 mg/m3
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*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance colourless to yellowish

Physical State highly viscous gel

Odor weak characteristic

pH 4.0 - 6.0 (10 %) at 23 °C

Vapor Pressure no data available

Vapor Density (Air = 1) no data available

Density ca. 1.43 g/cm³ at 20 °C

Evaporation rate no data available

Boiling Point no data available

Melting / Freezing Point no data available



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Partition coefficient: n-octanol/water no data available

Viscosity $\geq 5,400$ mPa.s at 20 °C
 Velocity gradient 80 /s

SECTION 10. STABILITY AND REACTIVITY

Hazardous Decomposition Products no data available

Hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions.

Chemical Stability Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

The non-acute information pertains to the technical-grade active ingredient.

Acute oral toxicity rat: LD50: $> 2,500$ mg/kg
 Test conducted with a similar formulation.

Acute dermal toxicity rat: LD50: $> 2,000$ mg/kg
 Test conducted with a similar formulation.

Skin irritation rabbit: No skin irritation
 Test conducted with a similar formulation.

Eye irritation rabbit: No eye irritation
 Test conducted with a similar formulation.

Sensitisation guinea pig: Non-sensitizing.
 Test conducted with a similar formulation.
 OECD Test Guideline 406, Magnusson & Kligman test

Chronic toxicity Imidacloprid caused thyroid and/or liver effects in chronic studies in laboratory animals.

Assessment Carcinogenicity
 Imidacloprid was not carcinogenic in oncogenicity studies in rats and mice.

- ACGIH**
None.
- NTP**
None.
- IARC**
None.



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OSHA
 None.

Reproductive toxicity	Imidacloprid was not a reproductive toxicant in a multi-generation study in rats.
Developmental Toxicity	Imidacloprid is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed at doses that caused maternal toxicity.
Assessment neurotoxicity	Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.
Mutagenicity	Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish	Rainbow trout (<i>Oncorhynchus mykiss</i>) LC50: 211 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient.
Toxicity to aquatic plants	<i>Desmodesmus subspicatus</i> Growth rate EC50: > 10 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient.
Acute Toxicity to Aquatic Invertebrates	Water flea (<i>Daphnia magna</i>) EC50: 85 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient. <i>Chironomus riparius</i> (non-biting midge) LC50: 0.0552 mg/l Exposure time: 24 h The value mentioned relates to the active ingredient.
Environmental precautions	Do not allow to get into surface water, drains and ground water.



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SECTION 13. DISPOSAL CONSIDERATIONS

- General Disposal Guidance** Dispose in accordance with all local, state/provincial and federal regulations. Do not dispose of waste into sewer.
- Container Disposal** Do not re-use empty containers. Consult state and local regulations regarding the proper disposal of container. Do not puncture or incinerate container.

SECTION 14. TRANSPORT INFORMATION

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

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

TSCA list

None.

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

None.

US States Regulatory Reporting

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 Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.



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SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 0 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: New Material Safety Data Sheet.

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

Revision Date: 11/30/2010

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