



**Material Safety Data Sheet**  
**MAXFORCE® FLY SPOT BAIT**

MSDS Number: 102000008440  
 MSDS Version 1.0  
 Revision Date: 10/05/2006

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

**Product Name** MAXFORCE® FLY SPOT BAIT  
**MSDS Number** 102000008440  
**EPA Registration No.** 432-1455

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. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	10.00
Synthetic amorphous silica	112926-00-8	1.11

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! Harmful if swallowed. Avoid contact with skin, eyes and clothing. Highly toxic to aquatic invertebrates. Highly toxic to bees.

**Physical State** granular  
**Odor** weak characteristic  
**Appearance** white to beige  
**Routes of Exposure** Ingestion, Skin contact, Eye contact  
**Chronic or Delayed Long-Term** This product or its components may have target organ effects.

**SECTION 4. FIRST AID MEASURES**

**General** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.



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<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>	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.
<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. Do not leave victim unattended.

**Notes to Physician Treatment**

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>Autoignition Temperature</b>	345 °C / 653 °F
<b>Explosiveness</b>	Not explosive
<b>Fire and Explosion Hazards</b>	In the event of fire the following can be released: hydrogen chloride (HCl) hydrogen cyanide (hydrocyanic acid) carbon monoxide (CO) nitrogen oxides (NOx)
<b>Suitable Extinguishing Media</b>	water spray, carbon dioxide (CO2), foam, sand
<b>Fire Fighting Instructions</b>	Contain the spread of the fire-fighting media. 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. Use breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Avoid contact with spilled product or contaminated surfaces. Wear personal protective equipment. Unprotected persons must be kept away.
<b>Methods for Cleaning Up</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.



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**Additional Advice** Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7. HANDLING AND STORAGE**

**Handling Procedures** Use only in area provided with appropriate exhaust ventilation.  
Handle and open container in a manner as to prevent spillage.

**Storing Procedures** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**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.  
Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing.

**Min/Max Storage Temperatures** Do not transport or store above 40 °C / 104 °F

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

**General Protection** Follow all label instructions. Train employees in safe use of the product.  
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.

**Engineering Controls** Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Eye/Face Protection** safety glasses

**Hand Protection** PVC or 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**



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Synthetic amorphous silica	112926-00-8	ACGIH	TWA	10 mg/m3
		OSHA Z1A	TWA	6 mg/m3
		NIOSH	REL	6 mg/m3
		OSHA Z1	PEL	5 mg/m3
		Form of Exposure		Respirable fraction.
		OSHA Z1	PEL	15 mg/m3
		Form of Exposure		Total dust.
		Z3	TWA	15 millions of particles per cubic foot of air
		Form of Exposure		Respirable fraction.
		Z3	TWA	50 millions of particles per cubic foot of air
		Form of Exposure		Total dust.
		Z3	TWA	5 mg/m3
		Form of Exposure		Respirable fraction.
		Z3	TWA	15 mg/m3
		Form of Exposure		Total dust.
		US CA OEL	TWA PEL	5 mg/m3
		Form of Exposure		Respirable fraction.
		US CA OEL	TWA PEL	10 mg/m3
		Form of Exposure		Total dust.
		US CA OEL	TWA PEL	5 mg/m3
Form of Exposure		Respirable fraction.		
US CA OEL	TWA PEL	10 mg/m3		
Form of Exposure		Total dust.		
US CA OEL	TWA PEL	5 mg/m3		
Form of Exposure		Respirable fraction.		
US CA OEL	TWA PEL	10 mg/m3		
Form of Exposure		Total dust.		
Z3	TWA	20 millions of particles per cubic foot of air		
Z3	TWA	0.8 mg/m3		
Remarks		The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.		
Sucrose	57-50-1	ACGIH	TWA	10 mg/m3
		NIOSH	REL	5 mg/m3
		Form of Exposure		Respirable.
		NIOSH	REL	10 mg/m3
		Form of Exposure		Total
		OSHA Z1	PEL	5 mg/m3
		Form of Exposure		Respirable fraction.
		OSHA Z1	PEL	15 mg/m3
Form of Exposure		Total dust.		



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OSHA Z1A	TWA	5 mg/m3
Form of Exposure	Respirable fraction.	
OSHA Z1A	TWA	15 mg/m3
Form of Exposure	Total dust.	
US CA OEL	TWA PEL	5 mg/m3
Form of Exposure	Respirable fraction.	
US CA OEL	TWA PEL	10 mg/m3
Form of Exposure	Total dust.	

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white to beige
<b>Physical State</b>	granular
<b>Odor</b>	weak characteristic
<b>Bulk Density</b>	Pour - 0.69 g/mL; Tap - 0.74 g/mL
<b>Melting / Freezing Point</b>	181 °C / 358 °F
<b>Water solubility</b>	dispersible

**SECTION 10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

The acute dermal LD50 has been bridged from the technical-grade active ingredient, imidacloprid. The remaining acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredient.

<b>Acute Oral Toxicity</b>	female rat: LD50: > 2,000 mg/kg
<b>Acute Dermal Toxicity</b>	male/female rat: LD50: > 5,000 mg/kg
<b>Acute Inhalation Toxicity</b>	Requirement waived due to the physical nature and proposed use pattern of the product.
<b>Skin Irritation</b>	rabbit: No skin irritation.
<b>Eye Irritation</b>	rabbit: Minimally irritating.



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<b>Sensitization</b>	guinea pig: Non-sensitizing.
<b>Subchronic Toxicity</b>	Test sub-chronic data.
<b>Chronic Toxicity</b>	In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroids and/or liver.

**Assessment Carcinogenicity**

In oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

**ACGIH**

None.

**NTP**

None.

**IARC**

**OSHA**

None.

**Reproductive & Developmental Toxicity**      **REPRODUCTION:** In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

**DEVELOPMENTAL TOXICITY:** In developmental toxicity studies in rats and rabbits, there was no evidence of an embryotoxic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

**Neurotoxicity**      Neurotoxicity studies in rats showed slight behavioral and activity changes only at the highest dose tested. There were no correlating morphological changes observed in the neural tissues.

**Mutagenicity**      The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to Fish**      Rainbow trout (*Oncorhynchus mykiss*)  
LC50: 211 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient imidacloprid.

**Toxicity to Aquatic Plants**      *Desmodium subspicatus*  
Growth rate  
EC50: > 10 mg/l  
Exposure time: 72 h  
The value mentioned relates to the active ingredient imidacloprid.

**Acute Toxicity to Aquatic Invertebrates**      Water flea (*Daphnia magna*)  
EC50: 85 mg/l



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Exposure time: 48 h  
The value mentioned relates to the active ingredient imidacloprid.

**Environmental Precautions**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product as specified on the label.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance**

Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

**Container Disposal**

Do not re-use empty containers. Empty remaining contents. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

**SECTION 14. TRANSPORT INFORMATION**

TRANSPORTATION CLASSIFICATION:  
Not regulated for Transportation

FREIGHT CLASSIFICATION  
Insecticides or Fungicides, N.O.I.; other than poison

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-1455

**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

