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

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imidacloprid</td>
<td>138261-41-3</td>
<td>10.00</td>
</tr>
<tr>
<td>Synthetic amorphous silica</td>
<td>112926-00-8</td>
<td>1.11</td>
</tr>
</tbody>
</table>

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.
### SECTION 5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoignition Temperature</td>
<td>345 °C / 653 °F</td>
</tr>
<tr>
<td>Explosiveness</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Fire and Explosion Hazards</td>
<td>In the event of fire the following can be released: hydrogen chloride (HCl), hydrogen cyanide (hydrocyanic acid), carbon monoxide (CO), nitrogen oxides (NOx)</td>
</tr>
<tr>
<td>Suitable Extinguishing Media</td>
<td>water spray, carbon dioxide (CO2), foam, sand</td>
</tr>
<tr>
<td>Fire Fighting Instructions</td>
<td>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.</td>
</tr>
</tbody>
</table>

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Precautions</td>
<td>Avoid contact with spilled product or contaminated surfaces. Wear personal protective equipment. Unprotected persons must be kept away.</td>
</tr>
<tr>
<td>Methods for Cleaning Up</td>
<td>Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.</td>
</tr>
</tbody>
</table>
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
<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>ACGIH TWA</th>
<th>OSHA Z1A TWA</th>
<th>NIOSH REL</th>
<th>OSHA Z1 PEL</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic amorphous silica</td>
<td>112926-00-8</td>
<td>10 mg/m³</td>
<td>6 mg/m³</td>
<td>6 mg/m³</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Respirable fraction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15 mg/m³</td>
<td>Total dust.</td>
<td>15 millions of particles per cubic foot of air</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 millions of particles per cubic foot of air</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Respirable fraction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td>Total dust.</td>
<td>15 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Respirable fraction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15 mg/m³</td>
<td>Total dust.</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Respirable fraction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total dust.</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Respirable fraction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total dust.</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total dust.</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20 millions of particles per cubic foot of air</td>
<td>0.8 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>10 mg/m³</td>
<td>5 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resilberable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Respirable fraction.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³</td>
<td>Total dust.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability   Stable under recommended storage conditions.
Hazardous Reactions  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.

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

guinea pig: Non-sensitizing.

Subchronic Toxicity

Test sub-chronic data.

Chronic Toxicity

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
None.

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

Desmodesmus 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
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
harm.

US State Right-To-Know Ingredients
Synthetic amorphous silica  112926-00-8  CA, IL, MN, RI

Canadian Regulations
Canadian Domestic Substance List
Synthetic amorphous silica  112926-00-8

Environmental
CERCLA
None.

Clean Water Section 307 Priority Pollutants
None.
Safe Drinking Water Act Maximum Contaminant Levels
None.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
Health - 1  Flammability - 0  Reactivity - 1  Others - none
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: New Material Safety Data Sheet.

Revision Date: 10/05/2006

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.