



## MAXFORCE Tick Management System

MSDS Version 2.2

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** MAXFORCE Tick Management System  
**Chemical Name**  
**Common Name**  
**MSDS Number** 1800  
**Chemical Family**  
**Chemical Formulation**  
**EPA Registration No.** 432-1248

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

**Product Use Description** MAXFORCE Tick Management System consists of treated wicks with the active ingredient Fipronil.

For Use by Professional Pesticide Management Professionals and Public Health Departments in the Control of Deer Ticks which May carry Lyme Disease.

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
FIPRONIL	120068-37-3	0.7000	

### SECTION 3. HAZARDS IDENTIFICATION

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

**Emergency Overview** Caution! Harmful if swallowed, inhaled or absorbed through the skin. May cause mild irritation to eyes. Avoid contact with skin, eyes and clothing.

**Physical State** Liquid concentrate

**Odor** Odorless

**Immediate Effects**  
**General** The following data pertains to the active ingredient used to treat the system's

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applicator.

**Eye** May cause mild irritation to eyes. Avoid contact with eyes.

**Skin** Harmful if absorbed through skin. Avoid contact with skin or clothing. May be minimally irritating to the skin following prolonged direct contact. May produce symptoms similar to those from ingestion.

**Ingestion** Harmful if swallowed. May cause shortness of breath, involuntary shaking, convulsions, excitement.

**Inhalation** Harmful if inhaled. May produce symptoms similar to those from ingestion. May cause shortness of breath, excitement, involuntary shaking, convulsions, irritability.

**Chronic or Delayed Long-Term** This product does not contain any ingredients designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

**Medical Conditions Aggravated by Exposure** Inhalation of product if opened may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

### SECTION 4. FIRST AID MEASURES

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

**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 poison control center or doctor for treatment advice.

**Skin** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Ingestion** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation** Move person 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 poison control center or doctor for further treatment advice.

#### Notes to physician

**Signs and Symptoms** In severe cases of overexposure by oral ingestion, lethargy, muscle tremors, and, in extreme cases, possibly convulsions, may occur.

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**Treatment** There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### TREATMENT FOR FIPRONIL OVERDOSE:

Recommendations for treatment are based on anticonvulsant therapy as routinely administered to humans. Phenobarbital or diazepam may be useful in controlling convulsions induced by Fipronil.

Even when symptoms of Fipronil intoxication are rapidly reversed by treatment, the treatment must be continued for several days, gradually decreasing the dose of anticonvulsant based on the patient's clinical response. This is necessary due to the slow elimination of the compound.

## SECTION 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	Not applicable
<b>Fire and Explosion Hazards</b>	Under fire conditions, toxic, corrosive fumes are emitted.
<b>Suitable Extinguishing Media</b>	Dry chemical, Foam, Water, Carbon dioxide (CO2)

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>General and Disposal</b>	Wear appropriate gear for the situation. See Personal Protection information in Section 8.
<b>Land Spill or Leaks</b>	If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.

## SECTION 7. HANDLING AND STORAGE

<b>Handling Procedures</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors and mists. Do not ingest.
<b>Storing Procedures</b>	Do not contaminate water, food, or feed by storage or disposal. Store unused boxes out of reach of children and animals. Store away from heat or sunlight.
<b>Work/Hygienic Procedures</b>	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:  Do not store, use, and/or consume foods, beverages, tobacco products, or

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cosmetics in areas where this material is stored.

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

Wash exposed skin promptly to remove accidental splashes of contact with this material.

Remove and wash contaminated clothing before re-use. As soon as practical, wash thoroughly and change into clean clothing. Contaminated clothing should not be taken home or laundered with other clothing.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls</b>	Engineering controls are not necessary under most routine use and handling conditions. Maintain exposure levels below the applicable exposure limit through the use of general and local exhaust ventilation.
<b>Hand Protection</b>	Impervious butyl rubber gloves
<b>Body Protection</b>	Long-sleeved shirt and long pants. Shoes plus socks.
<b>General Protection</b>	<p>These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.</p> <p>Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.</p>

#### Exposure Limits

None Established

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid concentrate
<b>Odor</b>	Odorless
<b>pH</b>	7 (1% in distilled water)
<b>Solubility (in water)</b>	Dispersible

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**Decomposition Temperature** 240 °C

### SECTION 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	This material is stable under normal handling and storage conditions described in Section 7.
<b>Conditions to Avoid</b>	Direct sunlight Exposure to extreme heat
<b>Incompatibility</b>	Strong bases Strong acids Strong oxidizing agents
<b>Hazardous Products of Decomposition</b>	Decomposition Type: thermal Hydrogen fluoride Oxides of nitrogen Oxides of sulfur Carbon oxides Hydrochloric acid
<b>Hazardous Polymerization (Conditions to avoid)</b>	Will not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

NOTE: Data for the acute information is based on studies performed on a similar formulation with 2.5% Fipronil.

<b>Acute Oral Toxicity</b>	Male Rat: LD50: 3,529 mg/kg Male and Female Rat: LD50: 3,208 mg/kg
<b>Acute Dermal Toxicity</b>	LD50: > 4,000 mg/kg
<b>Acute Inhalation Toxicity</b>	LC50: > 5.0 mg/l MMAD = 2.6 micrometers with GSD of 1.95
<b>Skin Irritation</b>	Non-irritating.
<b>Eye Irritation</b>	Rabbit: Mildly irritating.
<b>Sensitization</b>	Not considered to be a skin sensitizer.
<b>Assessment Carcinogenicity</b>	

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**ACGIH**  
None  
**NTP**  
None  
**IARC**  
None  
**OSHA**  
None

### SECTION 12. ECOLOGICAL INFORMATION

#### Acute and Prolonged Toxicity to Fish

The following data is based on the technical grade active ingredient(s).  
Rainbow trout  
flow-through test  
LC50: 248 µg/l  
Exposure Time: 96 h  
Mean concentration.

Bluegill sunfish  
flow-through test  
LC50: 85 µg/l  
Exposure Time: 96 h  
Mean concentration.

#### Acute Toxicity to Aquatic Invertebrates

The following data is based on the technical grade active ingredient(s).  
Daphnia  
flow-through test  
EC50: 248 µg/l  
Exposure Limit: 48 h  
Mean concentration.

#### Toxicity Other Non Mammal Terr. Species

The following data is based on the technical grade active ingredient(s).  
Mallard duck  
LC50: > 5,000 mg/kg  
Exposure Time: 8 d  
Dietary concentrations. Mean concentration.

Bobwhite quail  
LC50: 48 mg/kg  
Exposure Time: 8 d  
Dietary concentrations. Mean concentration.

#### Environmental Precautions

Toxic to birds, fish and aquatic invertebrates. 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 washwater. Contain runoff to prevent entry into sewers or waterways.

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### Additional Environmental Information

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

## SECTION 13. DISPOSAL CONSIDERATIONS

### General Disposal Guidance

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

### Container Disposal

If burned, stay out of smoke. After product use, the empty container box can be disposed of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning.

### RCRA Classification

Not Regulated under this Statute

## SECTION 14. TRANSPORT INFORMATION

### TRANSPORTATION CLASSIFICATION:

Not regulated for transportation

## SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1248

### US Federal Regulations

#### 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 Reporting

#### CA Prop65

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

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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

### International Regulations

#### EU Classification

None

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

None

## SECTION 16. OTHER INFORMATION

	Health	Flammability	Reactivity	Others
NFPA	2	0	1	

Reason to Issue: Updated Section 3, eye effects; Section 11, Toxicology information.

Approval Date: 01/15/2004

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