## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier**

| | |
|---|---|
| **Trade name** | MAXFORCE® FLEET™ |
| **Product code (UVP)** | 84897086 |
| **SDS Number** | 102000031112 |
| **EPA Registration No.** | 432-1264 |

**Relevant identified uses of the substance or mixture and uses advised against**

| | |
|---|---|
| **Use** | Insecticide |
| **Restrictions on use** | See product label for restrictions. |

**Information on supplier**

| | |
|---|---|
| **Supplier** | Bayer Environmental Science<br>2 T.W. Alexander Drive<br>Research Triangle PK, NC 27709<br>USA |
| **Responsible Department** | Email: SDSINFO.BCS-NA@bayer.com |

**Emergency telephone no.**

| | |
|---|---|
| **Emergency Telephone Number (24hr/ 7 days)** | 1-800-334-7577 |
| **Product Information Telephone Number** | 1-800-331-2867 |

## SECTION 2: HAZARDS IDENTIFICATION

**Classification in accordance with regulation HCS 29CFR §1910.1200**
This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Hazards Not Otherwise Classified (HNOC)**
No physical hazards not otherwise classified.
No health hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component Name | CAS-No. | Concentration % by weight |
|---|---|---|
| Fipronil | 120068-37-3 | 0.001 |

## SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

| | |
|---|---|
| **General advice** | When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment. |
| **Inhalation** | 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. |
| **Skin contact** | 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. |
| **Eye contact** | 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. |
| **Ingestion** | Call a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Never give anything by mouth to an unconscious person. Do not leave victim unattended. |

**Most important symptoms and effects, both acute and delayed**

| | |
|---|---|
| **Symptoms** | To date no symptoms are known. |

**Indication of any immediate medical attention and special treatment needed**

| | |
|---|---|
| **Treatment** | Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote. |

## SECTION 5: FIREFIGHTING MEASURES

**Extinguishing media**

| | |
|---|---|
| **Suitable** | Water, Foam, Carbon dioxide (CO2), Dry chemical |
| **Unsuitable** | High volume water jet |
| **Special hazards arising from the substance or mixture** | Dangerous gases are evolved in the event of a fire. |

**Advice for firefighters**

| | |
|---|---|
| **Special protective equipment for firefighters** | Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. |
| **Further information** | Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. |
| **Flash point** | 93.4 °C |

| | |
|---|---|
| **Auto-ignition temperature** | No data available |
| **Lower explosion limit** | No data available |
| **Upper explosion limit** | No data available |
| **Explosivity** | Not explosive |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

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

**Methods and materials for containment and cleaning up**

| | |
|---|---|
| **Methods for cleaning up** | 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. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. |
| **Reference to other sections** | Information regarding safe handling, see section 7.<br>Information regarding personal protective equipment, see section 8.<br>Information regarding waste disposal, see section 13. |

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

| | |
|---|---|
| **Advice on safe handling** | Use only in area provided with appropriate exhaust ventilation. |
| **Advice on protection against fire and explosion** | Do not use this product in or on electrical equipment due to the possibility of shock hazard. |
| **Hygiene measures** | Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.<br>Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. |

**Conditions for safe storage, including any incompatibilities**

| | |
|---|---|
| **Requirements for storage areas and containers** | 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. |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

No known occupational limit values.

**Exposure controls**

**Personal protective equipment**
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

| | |
|---|---|
| **Respiratory protection** | Respiratory protection is not required under anticipated circumstances of exposure. |
| **Hand protection** | Chemical resistant nitrile rubber gloves |
| **Eye protection** | Safety glasses with side-shields |
| **Skin and body protection** | Wear long-sleeved shirt and long pants and shoes plus socks. |
| **General protective measures** | Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.<br>Keep and wash PPE separately from other laundry. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance** | light yellow |
| **Physical State** | gel |
| **Odor** | sweet |
| **Odour Threshold** | No data available |
| **pH** | 4.5 - 5.5 (100 %) (55 °C) |
| **Vapor Pressure** | No data available |
| **Vapor Density (Air = 1)** | No data available |
| **Density** | ca. 1.27 g/cm³ (20 °C) |
| **Evaporation rate** | No data available |
| **Boiling Point** | No data available |
| **Melting / Freezing Point** | 60 °C / 140 °F |
| **Water solubility** | soluble |
| **Minimum Ignition Energy** | Not applicable |
| **Decomposition temperature** | Not applicable |
| **Partition coefficient: n-octanol/water** | Not applicable |

| | |
|---|---|
| **Viscosity** | No data available |
| **Flash point** | 93.4 °C |
| **Auto-ignition temperature** | No data available |
| **Lower explosion limit** | No data available |
| **Upper explosion limit** | No data available |
| **Explosivity** | Not explosive |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | |
| **Thermal decomposition** | Not applicable |
| **Chemical stability** | Stable under normal conditions. |
| **Possibility of hazardous reactions** | No dangerous reaction known under conditions of normal use. |
| **Conditions to avoid** | Extremes of temperature and direct sunlight.<br>Exposure to moisture. |
| **Incompatible materials** | Strong bases, Strong acids, Strong oxidizing agents |
| **Hazardous decomposition products** | No decomposition products expected under normal conditions of use. |

## SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|---|---|
| **Exposure routes** | Ingestion, Skin contact, Eye contact |
| **Immediate Effects** | |
| **Skin** | May be minimally irritating following prolonged direct contact. |
| **Ingestion** | May be harmful if swallowed. |

**Information on toxicological effects**

| | |
|---|---|
| **Acute oral toxicity** | LD50 (Rat) > 5,000 mg/kg |
| **Acute inhalation toxicity** | No data available |
| **Acute dermal toxicity** | LD50 (Rat) > 5,000 mg/kg |
| **Skin corrosion/irritation** | slight irritation (Rabbit) |
| **Serious eye damage/eye irritation** | Minimally irritating. (Rabbit) |

**Respiratory or skin sensitisation** Skin: Non-sensitizing. (Guinea pig)

**Assessment STOT Specific target organ toxicity – repeated exposure**

Fipronil caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver. Fipronil caused neurobehavioral effects and/or neuropathological changes in animal studies.

**Assessment mutagenicity**

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

**Assessment carcinogenicity**

Fipronil caused an increased incidence of tumours in rats in the following organ(s): Thyroid. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

Fipronil caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Fipronil is related to parental toxicity.

**Assessment developmental toxicity**

Fipronil did not cause developmental toxicity in rats and rabbits.

**Further information**

Acute toxicity studies have been bridged from a similar formulation(s).
The non-acute information pertains to the active ingredient(s).

## SECTION 12: ECOLOGICAL INFORMATION

| | |
|---|---|
| **Toxicity to fish** | LC50 (Lepomis macrochirus (Bluegill sunfish)) = 0.0852 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient fipronil. |
| **Chronic toxicity to fish** | Cyprinodon variegatus (sheepshead minnow)<br>Early-life Stage<br>NOEC: = 0.0029 mg/l<br>Exposure time: 35 d<br>The value mentioned relates to the active ingredient fipronil. |

| | |
|---|---|
| | Oncorhynchus mykiss (rainbow trout)<br>Early-life Stage<br>NOEC: = 0.015 mg/l<br>Exposure time: 90 d<br>The value mentioned relates to the active ingredient fipronil. |
| **Toxicity to aquatic invertebrates** | EC50 (Daphnia magna (Water flea)) = 0.19 mg/l<br>Exposure time: 48 h<br>The value mentioned relates to the active ingredient fipronil. |
| | LC50 (Mysidopsis bahia (mysid shrimp)) = 0.00014 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient fipronil. |
| **Chronic toxicity to aquatic invertebrates** | NOEC (Mysidopsis bahia (mysid shrimp)): = 0.0077 µg/l<br>Life Cycle; Exposure time: 28 d<br>The value mentioned relates to the active ingredient fipronil. |
| | NOEC (Daphnia magna (Water flea)): = 0.0098 mg/l<br>Exposure time: 21 d<br>The value mentioned relates to the active ingredient fipronil. |
| **Toxicity to aquatic plants** | EC50 (Desmodesmus subspicatus (green algae)) = 0.068 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient fipronil. |
| | NOEC (Desmodesmus subspicatus (green algae)) = 0.040 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient fipronil. |
| | NOEC (Lemna gibba (gibbous duckweed)) = 0.16 mg/l<br>Exposure time: 14 d<br>The value mentioned relates to the active ingredient fipronil. |
| **Biodegradability** | Fipronil:<br>Not rapidly biodegradable |
| **Koc** | Fipronil: Koc: 427 - 1278 |
| **Bioaccumulation** | Fipronil: Bioconcentration factor (BCF) 321<br>Does not bioaccumulate. |
| **Mobility in soil** | Fipronil: Slightly mobile in soils |
| **Environmental precautions** | Do not allow to get into surface water, drains and ground water.<br>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.<br>Apply this product as specified on the label. |

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**

| | |
|---|---|
| **Product** | Follow container label instructions for disposal of wastes generated during use in compliance with the product label.<br>Never place unused product down any indoor or outdoor drain. |
| **Contaminated packaging** | Do not re-use empty containers.<br>Place empty container in trash.<br>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. |

## 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.** 432-1264

**US Federal Regulations**

**TSCA list**

| | |
|---|---|
| Water | 7732-18-5 |
| Sucrose | 57-50-1 |
| 1,2-Propanediol | 57-55-6 |

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

| | |
|---|---|
| N-Methyl-2-pyrrolidone | 872-50-4 |

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

None.

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

| | | |
|---|---|---|
| N-Methyl-2-pyrrolidone | 872-50-4 | 25000lbs |

**US States Regulatory Reporting**

**CA Prop65**

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

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| | | |
|---|---|---|
| N-Methyl-2-pyrrolidone | 872-50-4 | Developmental toxin. |

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

| | | |
|---|---|---|
| Sucrose | 57-50-1 | MN, RI |
| 1,2-Propanediol | 57-55-6 | MN, RI |
| Orthophosphoric acid | 7664-38-2 | CA, CT, IL, MN, NJ, RI |
| N-Methyl-2-pyrrolidone | 872-50-4 | MN, NJ |

**EPA/FIFRA Information:**
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** May be harmful if swallowed.
Avoid contact with skin and clothing.
Keep exposed gel away from open food and food contact surfaces.
Wash thoroughly with soap and water after handling.

## SECTION 16: OTHER INFORMATION

**Abbreviations and acronyms**

| | |
|---|---|
| 49CFR | Code of Federal Regulations, Title 49 |
| ACGIH | US. ACGIH Threshold Limit Values |
| ATE | Acute toxicity estimate |
| CAS-Nr. | Chemical Abstracts Service number |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| EINECS | European inventory of existing commercial substances |
| ELINCS | European list of notified chemical substances |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| N.O.S. | Not otherwise specified |
| NTP | US. National Toxicology Program (NTP) Report on Carcinogens |
| OECD | Organization for Economic Co-operation and Development |
| TDG | Transportation of Dangerous Goods |
| TWA | Time weighted average |
| UN | United Nations |
| WHO | World health organisation |

**NFPA 704 (National Fire Protection Association):**

| | | | |
|---|---|---|---|
| Health - 1 | Flammability - 1 | Instability - 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:** The following sections have been revised: Section 8: Exposure Controls / Personal Protection. Section 12. Ecological information. Section 15: Regulatory information. Reviewed and updated for general editorial purposes.

**Revision Date:** 10/22/2019

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