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
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
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

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fipronil</td>
<td>120068-37-3</td>
<td>0.001</td>
</tr>
</tbody>
</table>
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
SAFETY DATA SHEET

MAXFORCE® FLEET™
Version 2.0 / USA
102000031112

Revision Date: 10/22/2019
Print Date: 10/22/2019

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. Information regarding personal protective equipment, see section 8. 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. 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.
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.
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
Exposure time: 96 h
The value mentioned relates to the active ingredient fipronil.

Chronic toxicity to fish

Cyprinodon variegatus (sheepshead minnow)
Early-life Stage
NOEC: = 0.0029 mg/l
Exposure time: 35 d
The value mentioned relates to the active ingredient fipronil.
Oncorhynchus mykiss (rainbow trout)
Early-life Stage
NOEC: = 0.015 mg/l
Exposure time: 90 d
The value mentioned relates to the active ingredient fipronil.

Toxicity to aquatic invertebrates
EC50 (Daphnia magna (Water flea)) = 0.19 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient fipronil.

LC50 (Mysisida bahia (mysid shrimp)) = 0.00014 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient fipronil.

Chronic toxicity to aquatic invertebrates
NOEC (Mysidopsis bahia (mysid shrimp)): = 0.0077 µg/l
Life Cycle; Exposure time: 28 d
The value mentioned relates to the active ingredient fipronil.

NOEC (Daphnia magna (Water flea)): = 0.0098 mg/l
Exposure time: 21 d
The value mentioned relates to the active ingredient fipronil.

Toxicity to aquatic plants
EC50 (Desmodesmus subspicatus (green algae)) = 0.068 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient fipronil.

NOEC (Desmodesmus subspicatus (green algae)) = 0.040 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient fipronil.

NOEC (Lemna gibba (gibbous duckweed)) = 0.16 mg/l
Exposure time: 14 d
The value mentioned relates to the active ingredient fipronil.

Biodegradability
Fipronil: Not rapidly biodegradable
Koc
Fipronil: Koc: 427 - 1278
Bioaccumulation
Fipronil: Bioconcentration factor (BCF) 321
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.
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
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. Never place unused product down any indoor or outdoor drain.

Contaminated packaging | Do not re-use empty containers. Place empty container in trash. 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

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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