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

### 1.1 Product identifier

**Trade name** MAXFORCE FORTE RB0,05

**Product code (UVP)** 81740917

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use** Insecticide

### 1.3 Details of the supplier of the safety data sheet

**Supplier** 2022 ES Discovery India Private Limited
Zenia Building,
7th Floor, Hiranandani Circle
Hiranandani Estate,
Thane West - 400607
Maharashtra

Telephone : +91-22-50023540

Telefax : +91-22-50972774

Emergency telephone no. **:** 000 800 1007 141

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1
H410 Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

- Fipronil

**Signal word**: Warning

**Hazard statements**

| | |
|---|---|
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH208 | Contains 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1). May produce an allergic reaction. |

**Precautionary statements**

| | |
|---|---|
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container in accordance with local regulation. |

**2.3 Other hazards**

No additional hazards known beside those mentioned.

Fipronil: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

| | |
|---|---|
| Ecological information: | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| Toxicological information: | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.2 Mixtures**

**Chemical nature**

Bait (ready for use) (RB)
Fipronil 0,05%

**Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

| Name | CAS-No. / EC-No. / REACH Reg. No. | Classification REGULATION (EC) No 1272/2008 | Conc. [%] |
|---|---|---|---|
| Fipronil | 120068-37-3 | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 2, H330<br>STOT RE 1, H372<br>Aquatic Acute 1, H400 | 0.05 |

| | | | |
|---|---|---|---|
| | | Aquatic Chronic 1, H410 | |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5<br>01-2120761540-60-0003 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 | >= 0.005 – <= 0.05 |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) | 55965-84-9 | Acute Tox. 3, H301<br>Acute Tox. 2, H310<br>Acute Tox. 2, H330<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | >= 0.0015 – < 0.06 |
| Sucrose | 57-50-1<br>01-2119491293-35-xxxx | Not classified | >= 1.0 |

**Further information**

| | | |
|---|---|---|
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | M-Factor: 10 (acute) |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Skin Corr. 1C; H314: SCL >= 0.6 % |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Skin Irrit. 2; H315: SCL 0.06 - < 0.6 % |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Eye Dam. 1; H318: SCL >= 0.6 % |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Eye Irrit. 2; H319: SCL 0.06 - < 0.6 % |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Skin Sens. 1A; H317: SCL >= 0.0015 % |

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Particle characteristics**

This substance/ mixture does not contain nanoforms

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

| | |
|---|---|
| **General advice** | Move out of dangerous area. Remove contaminated clothing immediately and dispose of safely. |
| **Inhalation** | Move to fresh air. Call a physician or poison control center immediately. |
| **Skin contact** | Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician. |
| **Eye contact** | In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists. |
| **Ingestion** | Do NOT induce vomiting. Call a physician or poison control center immediately. |

### 4.2 Most important symptoms and effects, both acute and delayed

| | |
|---|---|
| **Symptoms** | Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s)., The following symptoms may occur:, Restlessness, anxiety, Tremors |

### 4.3 Indication of any immediate medical attention and special treatment needed

| | |
|---|---|
| **Treatment** | There is no specific antidote. Carefully monitor the respiratory functions. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. Oxygen or artificial respiration if needed. Keep respiratory tract clear. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Symptoms of poisoning may appear several hours later. Keep under medical supervision for at least 48 hours. |

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

| | |
|---|---|
| **Suitable** | Water spray, Carbon dioxide (CO2), Foam, Dry powder |
| **Unsuitable** | High volume water jet |
| **Hazchem Code** | 3Z |

| | |
|---|---|
| **5.2 Special hazards arising from the substance or mixture** | In the event of fire the following may be released:, Carbon monoxide (CO), Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride (HCl), Hydrogen fluoride |

### 5.3 Advice for firefighters

| | |
|---|---|
| **Special protective equipment for firefighters** | In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit. |
| **Further information** | Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses. |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| **Precautions** | Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. |
| **6.2 Environmental precautions** | Do not allow to get into surface water, drains and ground water. |

### 6.3 Methods and materials for containment and cleaning up

| | |
|---|---|
| **Methods for cleaning up** | The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. |
| **Additional advice** | Check also for any local site procedures. |
| **6.4 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

### 7.1 Precautions for safe handling

| | |
|---|---|
| **Advice on safe handling** | Ensure adequate ventilation. No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Avoid contact with skin, eyes and clothing. |
| **Advice on protection against fire and explosion** | Keep away from heat and sources of ignition. |
| **Hygiene measures** | Avoid contact with skin, eyes and clothing. Keep working clothes separately. Remove soiled clothing immediately and clean thoroughly before using again. Wash hands immediately after work, if necessary take a shower. Smoking, eating and drinking should be prohibited in the application area. |

### 7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| **Requirements for storage areas and containers** | Store in original container. Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. |
| **Advice on common storage** | Keep away from food, drink and animal feedingstuffs. |
| **Suitable materials** | Use of Bulk packaging at formulation site for temporary transport only!<br>Polyethylene film within an outer package |
| **7.3 Specific end use(s)** | Refer to the label and/or leaflet. |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

| Components | CAS-No. | Control parameters | Update | Basis |
|---|---|---|---|---|
| Fipronil | 120068-37-3 | 0.035 mg/m3 (TWA) | | OES BCS* |

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### 8.2 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.
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand protection**

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

| | |
|---|---|
| Material | Nitrile rubber |
| Rate of permeability | > 480 min |
| Glove thickness | > 0.4 mm |
| Protective index | Class 6 |
| Directive | Protective gloves complying with EN 374. |

**Eye protection**

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection**

Wear standard coveralls and Category 3 Type 4 suit.
If there is a risk of significant exposure, consider a higher protective type suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Form** | gel |
| **Colour** | brown |

| | |
|---|---|
| **Odour** | weak, characteristic |
| **Odour Threshold** | No data available |
| **Melting point/range** | No data available |
| **Boiling Point** | No data available |
| **Flammability** | No data available |
| **Upper explosion limit** | No data available |
| **Lower explosion limit** | No data available |
| **Flash point** | Not relevant |
| **Auto-ignition temperature** | No data available |
| **Self-accelarating decomposition temperature (SADT)** | No data available |
| **pH** | 5 - 7 (1 %) (23 °C) (deionized water) |
| **Viscosity, dynamic** | No data available |
| **Viscosity, kinematic** | No data available |
| **Water solubility** | No data available |
| **Partition coefficient: n-octanol/water** | No data available |
| **Vapour pressure** | No data available |
| **Density** | ca. 1.18 g/cm³ (20 °C) |
| **Relative density** | No data available |
| **Relative vapour density** | No data available |
| **Assessment nano particles** | This substance/ mixture does not contain nanoforms |
| **Particle size** | No data available |

**9.2 Other information**

| | |
|---|---|
| **Explosivity** | No data available |
| **Oxidizing properties** | No data available |
| **Evaporation rate** | No data available |
| **Other physico-chemical properties** | Further safety related physical-chemical data are not known. |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| **10.1 Reactivity** | Stable under normal conditions. |
| **10.2 Chemical stability** | Stable under recommended storage conditions. |
| **10.3 Possibility of hazardous reactions** | No hazardous reactions when stored and handled according to prescribed instructions. |
| **10.4 Conditions to avoid** | Extremes of temperature and direct sunlight. |
| **10.5 Incompatible materials** | Store only in the original container. |
| **10.6 Hazardous decomposition products** | No decomposition products expected under normal conditions of use. |

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in regulation (EC) No 1272/2008

| | |
|---|---|
| **Acute oral toxicity** | LD50 (Rat) > 2,000 mg/kg |
| **Acute inhalation toxicity** | Inhalation is no relevant route of exposure for this formulation. No volatility, no aerosols under normal conditions. |
| **Acute dermal toxicity** | LD50 (Rat) > 2,000 mg/kg |
| **Skin corrosion/irritation** | Slight irritant effect - does not require labelling. (Rabbit) |
| **Serious eye damage/eye irritation** | Slight irritant effect - does not require labelling. (Rabbit) |
| **Respiratory or skin sensitisation** | Skin: Non-sensitizing. (Guinea pig)<br>OECD Test Guideline 406, Buehler test |

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

Fipronil: Based on available data, the classification criteria are not met.

**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.

**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.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

| | |
|---|---|
| **Assessment** | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

| | |
|---|---|
| **Toxicity to fish** | LC50 (Oncorhynchus mykiss (rainbow trout)) 0.25 mg/l<br>Exposure time: 96 h<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)) 0.14 µg/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>Exposure time: 28 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. |

**12.2 Persistence and degradability**

| | |
|---|---|
| **Biodegradability** | Fipronil:<br>Not rapidly biodegradable |
| **Koc** | Fipronil: Koc: 427 - 1278 |

**12.3 Bioaccumulative potential**

| | |
|---|---|
| **Bioaccumulation** | Fipronil: Bioconcentration factor (BCF) 321<br>Does not bioaccumulate. |

**12.4 Mobility in soil**

| | |
|---|---|
| **Mobility in soil** | Fipronil: Slightly mobile in soils |

**12.5 Results of PBT and vPvB assessment**

| | |
|---|---|
| **PBT and vPvB assessment** | Fipronil: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be |

very persistent and very bioaccumulative (vPvB).

**12.6 Endocrine disrupting properties**

| | |
|---|---|
| **Assessment** | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

**12.7 Other adverse effects**

| | |
|---|---|
| **Additional ecological information** | No other effects to be mentioned. |

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

| | |
|---|---|
| **Product** | In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. |
| **Contaminated packaging** | Dispose of as unused product. |

**Legal basis**

**Waste key in accordance with Schedule I of the Hazardous Waste Rules, 2008 as amended (India - EP Act):**

29.1Process wastes/residues
29.3Date-expired and off-specification pesticides

## SECTION 14: TRANSPORT INFORMATION

**ADR/RID/ADN**

| | |
|---|---|
| 14.1 UN number | **3082** |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL SOLUTION) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packaging Group | III |
| 14.5 Environm. Hazardous Mark | YES |
| Hazard no. | 90 |
| Hazchem Code | 3Z |
| Tunnel Code | - |

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**IMDG**

| | |
|---|---|
| 14.1 UN number | **3082** |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL SOLUTION) |
| 14.3 Transport hazard class(es) | 9 |

| | |
|---|---|
| 14.4 Packaging Group | III |
| 14.5 Marine pollutant | YES |

**IATA**

| | |
|---|---|
| 14.1 UN number | **3082** |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL SOLUTION ) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packaging Group | III |
| 14.5 Environm. Hazardous Mark | YES |

**14.6 Special precautions for user**
See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**
No transport in bulk according to the IBC Code.

## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Further information**

WHO-classification: III (Slightly hazardous)

**Labeling according to Insecticide Rules 1971 as amended. (INDIA)**


Class III: Moderately toxic
Colour: bright blue
Danger!
Keep out of the reach of children.

## SECTION 16: OTHER INFORMATION

**Text of the hazard statements mentioned in Section 3**

| | |
|---|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Abbreviations and acronyms**

| | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute toxicity estimate |
| CAS-Nr. | Chemical Abstracts Service number |
| Conc. | Concentration |
| EC-No. | European community number |
| ECx | Effective concentration to x % |
| EINECS | European inventory of existing commercial substances |
| ELINCS | European list of notified chemical substances |
| EN | European Standard |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) |
| ICx | Inhibition concentration to x % |
| IMDG | International Maritime Dangerous Goods |
| LCx | Lethal concentration to x % |
| LDx | Lethal dose to x % |
| LOEC/LOEL | Lowest observed effect concentration/level |
| MARPOL | MARPOL: International Convention for the prevention of marine pollution from ships |
| N.O.S. | Not otherwise specified |
| NOEC/NOEL | No observed effect concentration/level |
| OECD | Organization for Economic Co-operation and Development |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| TWA | Time weighted average |
| UN | United Nations |
| WHO | World health organisation |

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2020/878 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

**Reason for Revision:** The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 9: Physical and Chemical Properties. Section 11: Toxicological Information.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.