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# **MAXFORCE FORTE**

 Version 2 / SGP
 Revision Date: 15.02.2022

 102000022527
 Print Date: 17.02.2022

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

1.1 Product identifier

Trade name MAXFORCE FORTE

Product code (UVP) 79717598

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** Bayer AG

Kaiser-Wilhelm-Allee 51373 Leverkusen

Germany

**Local distributor** Bayer (South East Asia) Pte Ltd

2 Tanjong Katong Road,

#07-01, Paya Lebar Quarter, Singapore 437161

Telephone: +65 6496 1888 (during office hour)

Telefax +65 64961491

1.4 Emergency telephone no.

**Global Incident Response** 

Hotline (24h)

+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

## **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

Classification according to Singapore Standard SS586: 2008 (2014)

Chronic aquatic toxicity: Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Singapore Standard SS586: 2008 (2014)

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

• Fipronil

## **Hazard statements**

H412 Harmful to aquatic life with long lasting effects.



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## **Precautionary statements**

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).

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.2 Mixtures

## **Chemical nature**

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

## **Hazardous components**

Name	CAS-No.	Conc. [%]
Fipronil	120068-37-3	0.05
1,2-Benzisothiazol-3(2H)-one	2634-33-5	>= 0.05 - < 1.0
reaction mass of 5-chloro-2- methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazol-3-	55965-84-9	>= 0.0015 - < 0.06
one (3:1)		

#### **Further information**

1,2-Benzisothiazol-	2634-33-5	M-Factor: 10 (acute)
3(2H)-one		

## **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



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**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

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 (HCI),

Hydrogen fluoride

5.3 Advice for firefighters

Special protective equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**Further information** 

Fight fire from upwind position. Keep out of smoke. 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. Keep

unauthorized people away. Isolate hazard area.

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.



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Additional advice Check also for any local site procedures.

6.4 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**

## 7.1 Precautions for safe handling

Ensure adequate ventilation. No specific precautions required when Advice on safe handling

handling unopened packs/containers; follow relevant manual handling

advice. Avoid contact with skin, eyes and clothing.

Avoid contact with skin, eyes and clothing. Keep working clothes Hygiene measures

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 a place accessible by authorized persons only. Keep containers

tightly closed in a dry, cool and well-ventilated place. Store at room

temperature. Keep away from direct sunlight.

Keep away from food, drink and animal feedingstuffs. Advice on common storage

Suitable materials Use of Bulk packaging at formulation site for temporary transport only!

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		OES BCS*
		(TWA)		

<sup>\*</sup>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.



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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

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.

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.

Appropriate engineering control measures: Refer to section 7

## **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

**pH** 5 - 7 (1 %) (23 °C) (deionized water)

Melting point/rangeNo data availableBoiling PointNo data availableFlash pointNo data availableFlammabilityNo data availableAuto-ignition temperatureNo data available

Self-accelarating

decomposition temperature

(SADT)

No data available

Upper explosion limit No data available



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No data available Lower explosion limit Vapour pressure No data available No data available **Evaporation rate** Relative vapour density No data available

**Density** ca. 1.18 g/cm3 (20 °C) Relative density No data available Water solubility No data available

Partition coefficient: n-

octanol/water

No data available

Viscosity, dynamic >= 5,000 mPa.s (20 °C) Velocity gradient 7.5 /s

Viscosity, kinematic No data available **Oxidizing properties** No data available **Explosivity** No data available

9.2 Other information 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 No hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

decomposition products

10.6 Hazardous

No decomposition products expected under normal conditions of use.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg

Acute inhalation toxicity

Not relevant

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg

Skin corrosion/irritation Slight irritant effect - does not require labelling. (Rabbit) Serious eye damage/eye Slight irritant effect - does not require labelling. (Rabbit)

irritation



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

## **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 0.25 mg/l

Exposure time: 96 h

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 (Mysidopsis bahia (mysid shrimp)) 0.14 μg/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

Exposure time: 28 d

The value mentioned relates to the active ingredient fipronil.

Exposure time: 96 h



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The value mentioned relates to the active ingredient fipronil.

12.2 Persistence and degradability

**Biodegradability** Fipronil:

Not rapidly biodegradable

**Koc** Fipronil: Koc: 427 - 1278

12.3 Bioaccumulative potential

**Bioaccumulation** Fipronil: Bioconcentration factor (BCF) 321

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 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 
Not completely emptied packagings should be disposed of as

hazardous waste.

## **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
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**



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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)
14.4 Packaging Group
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)
14.4 Packaging Group
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)

## Applicable national regulation

Control of Vectors and Pesticides Act

Workplace Safety and Health (general provisions) Regulations

## **SECTION 16: OTHER INFORMATION**

## 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

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



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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: 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 data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.

**Reason for Revision:** Reviewed and updated for general editorial purposes.

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