

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 21.02.2022 Version: 2.0

(ID no. 30797188/SDS\_CPA\_00/EN)

Date of print 05.04.2022

## 1. Identification

## **Product identifier**

## **Exponus®**

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

Relevant identified uses: crop protection product, insecticide

## Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

## **Emergency telephone number**

International emergency number: Telephone: +49 180 2273-112

## 2. Hazards Identification

#### Classification of the substance or mixture

According to UN GHS criteria

Carc. 2 Aquatic Acute 1 Aquatic Chronic 1

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For the classifications not written out in full in this section the full text can be found in section 16.

#### Label elements

#### Globally Harmonized System (GHS)

#### Pictogram:





## Signal Word: Warning

## Hazard Statement:

H351 Suspected of causing cancer. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary Statement:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

## Precautionary Statements (Prevention):

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

## Precautionary Statements (Response):

P308 + P313 IF exposed or concerned: Get medical attention.

P391 Collect spillage.

# Precautionary Statements (Storage): P405 Store locked up.

#### Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

## Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: 1,2-Benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

## According to UN GHS criteria

Hazard determining component(s) for labelling: N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl)phenyl]-2-fluoro-3-(N-methylbenzamido)benzamide

#### Other hazards

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## According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## 3. Composition/Information on Ingredients

## **Substances**

Not applicable

#### **Mixtures**

## Chemical nature

crop protection product, insecticide

## Hazardous ingredients (GHS)

According to UN GHS criteria

N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl)phenyl]-2-fluoro-3-(N-

methylbenzamido)benzamide

Content (W/W): 25,97 % Carc. 2

CAS Number: 1207727-04-5

Aquatic Acute 1

Aquatic Chronic 1

M-factor acute: 10000

M-factor chronic: 10000 H351, H400, H410

Residues (petroleum), catalytic reformer fractionator, sulfonated,polymers with formaldehyde, sodium salts

Content (W/W): < 3 % Eye Dam./Irrit. 2A CAS Number: 68425-94-5 Aquatic Acute 3

Aquatic Chronic 3 H319, H402, H412

1,2-Benzisothiazol-3(2H)-one

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Content (W/W): < 0,05 % CAS Number: 2634-33-5 EC-Number: 220-120-9 INDEX-Number: 613-088-00-6 Acute Tox. 4 (oral)
Skin Corr./Irrit. 2
Eye Dam./Irrit. 1
Skin Sens. 1
Aquatic Acute 1
Aquatic Chronic 1
M-factor acute: 1
M-factor chronic: 1

H318, H315, H302, H317, H400, H410

Specific concentration limit: Skin Sens. 1: >= 0,05 %

mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Content (W/W): < 0,0015 % CAS Number: 55965-84-9 Acute Tox. 3 (oral) Acute Tox. 2 (Inhalation - mist)

CAS Number: 55965-84-9 INDEX-Number: 613-167-00-5

Acute Tox. 2 (dermal)
Skin Corr./Irrit. 1C
Eye Dam./Irrit. 1

Skin Sens. 1A
Aquatic Acute 1
Aquatic Chronic 1
M-factor acute: 100
M-factor chronic: 100

H301, H317, H314, H310 + H330, H400, H410

EUH071

Specific concentration limit:
Skin Sens. 1A: >= 0,0015 %
Eye Dam./Irrit. 1: >= 0,6 %
Eye Dam./Irrit. 2: 0,06 - < 0,6 %
Skin Corr./Irrit. 1C: >= 0,6 %
Skin Corr./Irrit. 2: 0,06 - < 0,6 %

Propane-1,2-diol

Content (W/W): < 25 % CAS Number: 57-55-6 EC-Number: 200-338-0

For the classifications not written out in full in this section the full text can be found in section 16.

## 4. First-Aid Measures

## **Description of first aid measures**

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

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#### On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

#### On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## 5. Fire-Fighting Measures

## **Extinguishing media**

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

## Special hazards arising from the substance or mixture

Carbon monoxide, Carbon dioxide, Hydrogen fluoride, Hydrogen bromide, Hydrogen chloride, nitrogen oxides, sulfur oxides, halogenated compounds, Phosphorus compounds, silica compounds. The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

## Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

## **Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

## Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

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Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

## 7. Handling and Storage

## Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

## Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures below: -10 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## 8. Exposure Controls/Personal Protection

#### **Control parameters**

Components with occupational exposure limits

57-55-6: Propane-1,2-diol

## **Exposure controls**

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:

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Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

## General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

Form: liquid
Colour: cream
Odour: slight odour

Odour threshold:

Not determined due to potential

health hazard by inhalation.

pH value: approx. 6 - 8

(deionized water, 1 %(m), 20 °C)

Melting point: approx. 0 °C

Information applies to the solvent.

Boiling point: approx. 100 °C

Information applies to the solvent.

Flash point:

Non-flammable.

Evaporation rate:

not applicable

Flammability: no

not applicable

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Ignition temperature: 465 °C

(Regulation 440/2008/EC,

A.15)

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Vapour pressure: approx. 23,4 hPa

(20 °C)

Information applies to the solvent.

Density: approx. 1,16 g/cm3

(20 °C)

Relative vapour density (air):

not applicable

Solubility in water: dispersible

Partitioning coefficient n-octanol/water (log Kow):

not applicable

Thermal decomposition: 160 °C, 620 kJ/kg (DSC (OECD 113))

160 °C, 910 kJ/kg (DSC (OECD 113)) 160 °C, 400 kJ/kg (DSC (OECD 113))

Not a substance liable to self-decomposition according to UN transport

regulations, class 4.1.

Viscosity, dynamic: approx. 124 mPa.s

(20 °C, 100 1/s)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating (Regulation 440/2008/EC,

A.21)

SADT: > 75 °C

#### Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

## 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

## Chemical stability

The product is stable if stored and handled as prescribed/indicated.

## Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

## **Conditions to avoid**

See SDS section 7 - Handling and storage.

## Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

## **Hazardous decomposition products**

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

## Information on toxicological effects

#### **Acute toxicity**

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data: LD50 rat (oral): > 2.000 mg/kg No mortality was observed.

LC50 rat (by inhalation): > 1,7 mg/l Highest concentration technically achievable.

LD50 rat (dermal): > 5.000 mg/kg

#### Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

## Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

Buehler test guinea pig: Non-sensitizing.

#### Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

## Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl)phenyl]-2-fluoro-3-(N-methylbenzamido)benzamide

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.

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#### Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### Specific target organ toxicity (single exposure)

## Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

## Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. Based on available data, the classification criteria are not met.

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## **Aspiration hazard**

The product has not been tested. The statement has been derived from the properties of the individual components.

No aspiration hazard expected.

## Other relevant toxicity information

Misuse can be harmful to health.

## 12. Ecological Information

## **Toxicity**

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

Toxicity to fish:

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LC50 (96 h) > 0,855 mg/l, Oncorhynchus mykiss

Aquatic invertebrates:

EC50 (48 h) > 0,622 mg/l, Daphnia magna

Aquatic plants:

EC50 (96 h) 5,12 mg/l (growth rate), Pseudokirchneriella subcapitata

No observed effect concentration (72 h) 2,4 mg/l (growth rate), Pseudokirchneriella subcapitata

Information on: N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl)phenyl]-2-fluoro-3-(N-methylbenzamido)benzamide

Chronic toxicity to fish:

No observed effect concentration (33 d) 0,051 mg/l, Pimephales promelas

No observed effect concentration (34 d) 0,010 mg/l, Cyprinodon variegatus

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Information on: N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl)phenyl]-2-fluoro-3-(N-methylbenzamido)benzamide

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (28 d) 0,0000063 mg/L, Mysidopsis bahia

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## Persistence and degradability

Assessment biodegradation and elimination (H2O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl)phenyl]-2-fluoro-3-(N-methylbenzamido)benzamide

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

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## **Bioaccumulative potential**

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl)phenyl]-2-fluoro-3-(N-methylbenzamido)benzamide

Bioaccumulation potential:

Bioconcentration factor: 189 - 234, Oncorhynchus mykiss (OECD-Guideline 305)

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## Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

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Information on: N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl)phenyl]-2-fluoro-3-(N-methylbenzamido)benzamide

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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## Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### Other adverse effects

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

#### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

## 13. Disposal Considerations

#### Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

## 14. Transport Information

## **Land transport**

ADR

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains BROFLANILIDE)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for

user: None known

**RID** 

UN number or ID number: UN3082

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UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains BROFLANILIDE)

Transport hazard class(es): 9, EHSM Packing group: III
Environmental hazards: ves

Special precautions for

None known

user:

#### **Inland waterway transport**

ADN

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains BROFLANILIDE)

Transport hazard class(es): 9, EHSM Packing group: III

Environmental hazards: yes

Special precautions for

None known

user:

## Transport in inland waterway vessel

Not evaluated

#### Sea transport

**IMDG** 

UN number or ID number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains BROFLANILIDE)

Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes

Marine pollutant: YES

Special precautions for

user:

None known

## Air transport

IATA/ICAO

UN number or ID number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains BROFLANILIDE)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for

None known

user:

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## Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

#### **Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

## 15. Regulatory Information

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

To avoid risks to man and the environment, comply with the instructions for use.

#### 16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Carc. Carcinogenicity

Aquatic Acute Hazardous to the aquatic environment - acute Aquatic Chronic Hazardous to the aquatic environment - chronic

Eye Dam./Irrit. Serious eye damage/eye irritation

Acute Tox. Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation
Skin Sens. Skin sensitization

H351 Suspected of causing cancer. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H315 Causes skin irritation. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H310 + H330 Fatal in contact with skin or if inhaled EUH071 Corrosive to the respiratory tract.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the

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responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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