

Safety data sheet

Page: 1/16

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

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

1. Identification

Product identifier

Stellar® Star

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

Relevant identified uses: crop protection product, herbicide

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

Skin Corr./Irrit. 3 Repr. 1B (unborn child) Aquatic Acute 2 Aquatic Chronic 1

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

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: Danger

Hazard Statement:

H316 Causes mild skin irritation. H360 May damage the unborn child.

H401 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 label before use.

Precautionary Statements (Prevention):

P201 Obtain special instructions before use.

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

understood.

P280 Wear protective gloves/clothing/eye protection.

Precautionary Statements (Response):

P308 + P311 IF exposed or concerned: Call a POISON CENTER or physician.

P391 Collect spillage.

P332 + P313 If skin irritation occurs: Get medical attention.

Precautionary Statements (Storage): P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

According to UN GHS criteria

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Hazard determining component(s) for labelling: topramezone (ISO); Methanone, [3-(4,5-dihydro-3isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-, Alcohols, C12-15-branched and linear, ethoxylated propoxylated

Other hazards

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, Soluble concentrate (SL), herbicide

Hazardous ingredients (GHS) According to UN GHS criteria

sodium 3,6-dichloro-o-anisate

Content (W/W): 15,83 % CAS Number: 1982-69-0 EC-Number: 217-846-3

Aquatic Acute 2 Aquatic Chronic 2 H401, H411

INDEX-Number: 607-243-00-7

topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-

hydroxy-1-methyl-1H-pyrazol-4-yl)-

Content (W/W): 4,5 % CAS Number: 210631-68-8

Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 1 M-factor chronic: 100 H360, H400, H410

Repr. 1B (unborn child)

Alcohols, C12-15-branched and linear, ethoxylated propoxylated

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Content (W/W): < 30 % Skin Corr./Irrit. 2 CAS Number: 120313-48-6 Aquatic Acute 2 H315. H401

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

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

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

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons: water jet

Special hazards arising from the substance or mixture

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Carbon monoxide, Carbon dioxide, Hydrogen chloride, nitrogen oxides, organochloric compounds, sulfur oxides

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:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. 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

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

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.

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations. Dispose of absorbed material in accordance with regulations. Wear suitable protective equipment.

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:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Vapours may form ignitable mixture with air.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

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

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Storage stability:

Storage duration: 48 Months

Protect from temperatures below: 4 °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

No occupational exposure limits known.

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:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): 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.

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form: liquid Colour: brown, clear Odour: alcohol-like

Odour threshold:

Not determined due to potential health hazard by inhalation.

pH value: approx. 6 - 8

(1 %(m), 20 °C)

Melting point: 0°C

Information applies to the solvent.

Boiling point: 100 °C

Information applies to the solvent.

Flash point: > 105 °C

(Directive 92/69/EEC, A.9)

(Directive 92/69/EEC, A.15)

Evaporation rate:

not applicable

Flammability: not highly flammable

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.

433 °C Ignition temperature:

Vapour pressure: approx. 23 hPa

(20 °C)

Information applies to the solvent.

Density: approx. 1,11 g/cm3

(20 °C)

approx. 1,08 g/cm3

(55 °C)

Relative vapour density (air):

not applicable

Solubility in water: soluble

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

The statements are based on the properties of the individual

components.

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Information on: sodium 3,6-dichloro-o-anisate

Partitioning coefficient n-octanol/water (log Kow): -1,88

(pH value: 6,8)

Thermal decomposition: 280 °C, 100 kJ/kg (DSC (OECD 113))

(onset temperature)

390 °C, 70 kJ/kg (DSC (OECD 113))

(onset temperature)

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

regulations, class 4.1.

Viscosity, dynamic: approx. 1 mPa.s

Information applies to the solvent.

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating (Directive 2004/73/EC, A.21)

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 bases, strong acids, strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products:

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

11. Toxicological Information

Information on toxicological effects

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Acute toxicity

Assessment of acute toxicity:

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

Experimental/calculated data:

LD50 rat (oral): > 2.000 mg/kg

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

(by inhalation): The product has not been tested. The statement has been derived from the properties of the individual components.

LD50 rat (dermal): > 4.000 mg/kg

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Topramezone Experimental/calculated data:

LC50 rat (by inhalation): > 5,05 mg/l 4 h (OECD Guideline 403)

Information on: sodium 3,6-dichloro-o-anisate

Experimental/calculated data:

LC50 rat (by inhalation): > 200 mg/l 4 h

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Skin contact causes slight irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Slightly irritating. (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

Germ cell mutagenicity

Assessment of mutagenicity:

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

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

Carcinogenicity

Assessment of carcinogenicity:

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

Information on: topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-

Assessment of carcinogenicity:

When given in high doses, the substance was carcinogenic in animal studies. Based on its mechanism of action, a carcinogenic potential is not expected after exposure to low doses.

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.

Information on: topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-

Assessment of teratogenicity:

May cause harm to the unborn child.

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: topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

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:

Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Toxicity to fish:

LC50 (96 h) 108 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EEC, C.1, static) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic invertebrates:

EC50 (48 h) 95,9 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants:

EC50 (7 d) 1,09 mg/l, Lemna gibba (OECD guideline 221, static)

EC10 (7 d) 0,07 mg/l, Lemna gibba (OECD guideline 221)

Information on: topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-Chronic toxicity to fish:

No observed effect concentration 3,2 mg/l, Oncorhynchus mykiss (OECD Guideline draft)

Information on: topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 50 mg/l, Daphnia magna (OECD Guideline 211)

Persistence and degradability

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

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: topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

Information on: sodium 3,6-dichloro-o-anisate

Elimination information:

Not readily biodegradable (by OECD criteria).

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: sodium 3.6-dichloro-o-anisate

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Information on: topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-

Bioaccumulation potential:

Bioconcentration factor: 0,69 (42 d), Lepomis macrochirus (OPPTS 850.1730 (EPA Guideline))

Does not significantly accumulate in organisms.

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.

Information on: sodium 3,6-dichloro-o-anisate

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Information on: Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is possible.

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

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 UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TOPRAMEZONE)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for

user: None known

RID

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TOPRAMEZONE)

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Transport hazard class(es): 9, EHSM Packing group: Ш Environmental hazards: ves Special precautions for

user:

None known

Inland waterway transport

ADN

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TOPRAMEZONE)

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

Special precautions for None known

user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TOPRAMEZONE)

Transport hazard class(es): 9, EHSM

Packing group: Ш Environmental hazards: yes

Marine pollutant: YES

Special precautions for

user:

None known

Air transport

IATA/ICAO

UN number: UN 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN proper shipping name:

N.O.S. (contains TOPRAMEZONE)

Transport hazard class(es): 9. EHSM Packing group: Ш Environmental hazards: ves

Special precautions for None known

Date / Revised: 06.08.2020 Version: 2.0

Product: Stellar® Star

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

user:

Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:
Shipment approved:
Pollution name:
Pollution category:
Not evaluated

Further information

The following provisions may apply for product in packages containing a net quantity of 5 L or less

ADR, RID, ADN: Special Provision 375;

IMDG: 2.10.2.7; IATA: A197;

TDG: Special Provision 99(2);

49CFR: §171.4 (c) (2).

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:

Skin Corr./Irrit. Skin corrosion/irritation Repr. Reproductive toxicity

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

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H360 May damage the unborn child. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

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

Page: 16/16

BASF Safety data sheet according to UN GHS 4th rev. Date / Revised: 06.08.2020 Product: **Stellar® Star** Version: 2.0

(ID no. 30552432/SDS_CPA_00/EN)

Date of print 13.02.2024

Vertical lines in the left hand margin indicate an amendment from the previous version.