

# Safety data sheet

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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 02.02.2022

## 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 South Africa (Pty) Ltd

852 Sixteenth Road

Midrand

P O Box 2801

Halfway House 1685

SOUTH AFRICA

Telephone: +27 11 203 2400

### Emergency telephone number

National emergency number:

+27(011) 203 2573

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

Skin Corr./Irrit. 3

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Repr. 1B (unborn child)

Aquatic Acute 2

Aquatic Chronic 1

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

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Hazard determining component(s) for labelling: topramezone (ISO); Methanone, [3-(4,5-dihydro-3-isoxazolyl)-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 %     | Aquatic Acute 2   |
| CAS Number: 1982-69-0      | Aquatic Chronic 2 |
| EC-Number: 217-846-3       | 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 %    | Repr. 1B (unborn child) |
| CAS Number: 210631-68-8 | Aquatic Acute 1         |
|                         | Aquatic Chronic 1       |
|                         | M-factor acute: 1       |
|                         | M-factor chronic: 100   |
|                         | H360, H400, H410        |

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

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Content (W/W): < 30 %  
CAS Number: 120313-48-6

Skin Corr./Irrit. 2  
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.

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## 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.

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## 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

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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.

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## **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.

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## **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.

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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.

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## **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.

## 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<br>(1 %(m), 20 °C)   |                             |
| Melting point:                                      | 0 °C   |                             |
| Boiling point:                                      | Information applies to the solvent.<br>100 °C  |                             |
| Flash point:  | Information applies to the solvent.<br>> 105 °C  | (Directive 92/69/EEC, A.9)  |
| 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. |                             |
| Ignition temperature:                               | 433 °C   | (Directive 92/69/EEC, A.15) |
| Vapour pressure:                                    | approx. 23 hPa<br>(20 °C)  |                             |
| Density:  | Information applies to the solvent.<br>approx. 1,11 g/cm <sup>3</sup><br>(20 °C)<br>approx. 1,08 g/cm <sup>3</sup><br>(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.   |                             |

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

*Partitioning coefficient n-octanol/water (log Kow): -1,88*  
*(pH value: 6,8)*

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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.

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## 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.

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## 11. Toxicological Information

### Information on toxicological effects



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### 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*

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### 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:

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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)-*

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*Assessment of repeated dose toxicity:*

*Adaptive effects were observed after repeated exposure in animal studies.*

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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:

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)*

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*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)*

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### Persistence and degradability

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Assessment biodegradation and elimination (H<sub>2</sub>O):

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 (H<sub>2</sub>O):*

**|** *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.*

### 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.

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## 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.

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## 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, EHS   |
| 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) |

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Transport hazard class(es): 9, EHS  
Packing group: III  
Environmental hazards: yes  
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, EHS  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

**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, EHS  
Packing group: III  
Environmental hazards: yes  
Marine pollutant: YES  
Special precautions for user: None known

**Air transport**

IATA/ICAO

UN number: UN 3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TOPRAMEZONE)  
Transport hazard class(es): 9, EHS  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

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user:

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

|                     |               |
|---------------------|---------------|
| Regulation:         | Not evaluated |
| Shipment approved:  | Not evaluated |
| Pollution name:     | Not evaluated |
| Pollution category: | Not evaluated |
| Ship Type:          | 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          |
| Aquatic Chronic   | 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.

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