

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 13.12.2019  
Product: **Frequency Herbicide**

Version: 1.1

(30718229/SDS\_CPA\_AU/EN)

Date of print 15.01.2020

## 1. Substance/preparation and manufacturer/supplier identification

### Frequency Herbicide

Use: crop protection product, herbicide

Recommended use: crop protection product, herbicide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)  
Level 12, 28 Freshwater Place Southbank  
Victoria 3006, AUSTRALIA  
Telephone: +61 3 8855-6600  
Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]  
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

Classification of the substance and mixture:

Aspiration hazard: Cat. 1

Skin corrosion/irritation: Cat. 2

Skin sensitization: Cat. 1B

Reproductive toxicity: Cat. 1B (unborn child)

Hazardous to the aquatic environment - acute: Cat. 1

Hazardous to the aquatic environment - chronic: Cat. 1

Label elements and precautionary statement:

Pictogram:



Signal Word:  
 Danger

## Hazard Statement:

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H360	May damage the unborn child.
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 label before use.

## Precautionary Statements (Prevention):

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash contaminated body parts thoroughly after handling.
P280	Wear protective gloves/clothing/eye protection.

## Precautionary Statements (Response):

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P391	Collect spillage.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P331	Do NOT induce vomiting.

## Precautionary Statements (Storage):

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

P501	Dispose of contents and container to hazardous or special waste collection point.
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## Other hazards which do not result in classification:

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.

Repeated exposure may cause skin dryness or cracking.

### 3. Composition/information on ingredients

#### Chemical nature

crop protection product, herbicide

#### Hazardous ingredients

##### Topramezone

Content (W/W): 5.829 %  
CAS Number: 210631-68-8

Repr.: Cat. 1B (unborn child)  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 1  
M-factor acute: 1  
M-factor chronic: 100

##### Solvent naphtha

Content (W/W): < 35 %  
CAS Number: 64742-94-5

Asp. Tox.: Cat. 1  
Aquatic Acute: Cat. 2  
Aquatic Chronic: Cat. 2

##### Cloquintocet-mexyl

Content (W/W): < 15 %  
CAS Number: 99607-70-2

Skin Sens.: Cat. 1  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 1

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### 4. First-Aid Measures

#### General advice:

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. Do not induce vomiting due to aspiration hazard.

#### Note to physician:

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

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

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## 5. Fire-Fighting Measures

Suitable extinguishing media:  
water spray, dry powder, foam, carbon dioxide

Specific hazards:  
carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides  
The substances/groups of substances mentioned can be released in case of fire.

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.

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## 6. Accidental Release Measures

Personal precautions:  
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 for cleaning up or taking 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.  
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. Wear suitable protective equipment.

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## 7. Handling and Storage

### 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.

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### Storage

Segregate from foods and animal feeds.

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

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

solvent naphtha, 64742-94-5;

TWA value 200 mg/m<sup>3</sup> (ACGIHTLV), Non-aerosol

Measured as: total hydrocarbon vapor

Application restricted to conditions in which there are negligible aerosol exposures.

Skin Designation (ACGIHTLV), Non-aerosol

Measured as: total hydrocarbon vapor

The substance can be absorbed through the skin.

### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Standard work clothes and shoes.

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.

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## 9. Physical and Chemical Properties

Form: liquid, suspension

Colour: beige

Odour: faintly aromatic

Odour threshold: Not determined due to potential health hazard by inhalation.

pH value: approx. 4.5 - 6.5  
(23 °C)  
(undiluted)

Melting point: 0 °C

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Boiling point:	approx. 100 °C Information based on the main components.
Flash point:	No flash point - Measurement made up to pilot light extinguishes.
Evaporation rate:	not applicable
Flammability (solid/gas):	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:	490 °C
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	approx. 0.003 kPa (20 °C) Information applies to the solvent.
Density:	approx. 1.03 g/cm <sup>3</sup> (20 °C)
Relative vapour density (air):	not applicable
Solubility in water:	dispersible
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, dynamic:	approx. 63 mPa.s (20 °C, 200 1/s)

**Other Information:**

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

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## 10. Stability and Reactivity

Conditions to avoid:  
See SDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:  
strong acids, strong bases, strong oxidizing agents

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

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

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:  
LD50 (oral): > 2,000 mg/kg  
No mortality was observed.

LC50 (by inhalation): > 2.84 mg/l  
No mortality was observed.

LD50 (dermal): > 5,000 mg/kg  
No mortality was observed.

### Irritation

Assessment of irritating effects:  
Skin contact causes irritation. Not irritating to the eyes.

### Respiratory/Skin sensitization

Assessment of sensitization:  
Sensitization after skin contact possible.

### 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:

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

Information on: Topramezone

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.

Information on: naphthalene

Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

### **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

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

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

Information on: Cloquintocet-mexyl



Assessment of repeated dose toxicity:  
Repeated exposure may affect certain organs.  
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### **Aspiration hazard**

May also damage the lung at swallowing (aspiration hazard).  
The product has not been tested. The statement has been derived from the properties of the individual components.

### **Other relevant toxicity information**

Misuse can be harmful to health.

Has a degreasing effect on skin.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:  
Very toxic to aquatic life with long lasting effects.

Aquatic invertebrates:  
EC50 (48 h) 3.03 mg/l, Daphnia magna

Aquatic plants:  
EC50 (72 h) 5.39 mg/l (growth rate), Pseudokirchneriella subcapitata

EC10 (72 h) 3.19 mg/l (growth rate), Pseudokirchneriella subcapitata

EC50 (7 d) 0.775 mg/l (growth rate), Lemna gibba

EC10 (7 d) 0.03 mg/l (growth rate), Lemna gibba

Information on: Topramezone  
Chronic toxicity to fish:  
No observed effect concentration 3.2 mg/l, Oncorhynchus mykiss (OECD Guideline draft)  
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Information on: Topramezone  
Chronic toxicity to aquatic invertebrates:  
No observed effect concentration (21 d), 50 mg/l, Daphnia magna (OECD Guideline 211)  
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### **Mobility**

Assessment transport between environmental compartments:  
The product has not been tested. The statement has been derived from the properties of the individual components.

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Information on: Topramezone  
Assessment transport between environmental compartments:  
Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.  
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### **Persistence and degradability**

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  
Elimination information:  
< 10 % DOC reduction (28 d) (OECD 301 A (new version)) Not readily biodegradable (by OECD criteria).  
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### **Bioaccumulation potential**

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

Information on: Topramezone  
Bioaccumulation potential:  
Bioconcentration factor: 0.69 (42 d), Lepomis macrochirus (OPPTS 850.1730 (EPA Guideline))  
Does not significantly accumulate in organisms.  
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### **Additional information**

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## **13. Disposal Considerations**

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**

### **Domestic transport:**

Packing group:	III
ID number:	UN 3082
Transport hazard class(es):	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TOPRAMEZONE, SOLVENT NAPHTHA)

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**Further information**

Hazchem Code:3Z  
IERG Number:47

**Sea transport**

IMDG

Packing group: III  
ID number: UN 3082  
Transport hazard class(es): 9, EHS  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains TOPRAMEZONE, SOLVENT NAPHTHA)

**Air transport**

IATA/ICAO

Packing group: III  
ID number: UN 3082  
Transport hazard class(es): 9, EHS  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains TOPRAMEZONE, SOLVENT NAPHTHA)

**Further information**

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 kg(L) or IBCs.

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**15. Regulatory Information****Other regulations**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5

APVMA Product No.: 86267

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**16. Other Information**

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

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