

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 01.03.2023  
Product: **Luximax® Herbicide**

Version: 2.1

(30737257/SDS\_CPA\_AU/EN)

Date of print: 17.09.2024

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

**Product name:**  
Luximax® Herbicide

Use: crop protection product, herbicide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)  
Level 23, 40 City Road, 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:

Skin corrosion/irritation: Cat.2

Skin sensitization: Cat.1

Hazardous to the aquatic environment - acute: Cat.1

Hazardous to the aquatic environment - chronic: Cat.1

Label elements and precautionary statement:

Pictogram:



Signal Word:

## Warning

### Hazard Statement:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
P261	Avoid breathing mist or vapour or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash contaminated body parts thoroughly after handling.

### Precautionary Statements (Response):

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P391	Collect spillage.
P362 + P364	Take off contaminated clothing and wash it before reuse.

### 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.

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## 3. Composition/information on ingredients

### Chemical nature

Substance nature: mixture

crop protection product, herbicide

### Hazardous ingredients

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Content (W/W): 75 %  
CAS Number: 87818-31-3

Acute Tox.: Cat. 5 (oral)  
Acute Tox.: Cat. 4 (Inhalation - mist)  
Skin Corr./Irrit.: Cat. 3  
Skin Sens.: Cat. 1  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 1  
M-factor acute: 10  
M-factor chronic: 1

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## 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water

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.

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

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, sulfur oxides, nitrogen 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:

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

### Storage

Segregate from foods and animal feeds.

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

Protect from temperatures below: -5 °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.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

No substance specific occupational exposure limits known.

### 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  
Colour: light yellow  
Odour: faint odour, ether-like  
Odour threshold: Not determined due to potential health hazard by inhalation.

pH value: approx. 5 - 8  
(CIPAC standard water D, 1 %(m),  
23 °C)

Melting point: < -53 °C  
The data given are those of the  
active ingredient.

Boiling point: approx. 332 °C  
Information based on the main  
component/s.

Flash point: approx. 145 °C

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.

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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: 353 °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. 0.015 Pa  
(25 °C)  
Information based on the main component/s.

Density: approx. 1.00 g/cm<sup>3</sup>  
(20 °C)

Relative vapour density (air):  
not applicable

Solubility in water: emulsifiable  
Partitioning coefficient n-octanol/water (log Pow):  
not applicable

Viscosity, dynamic: approx. 72 mPa.s  
(20 °C, 100 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.

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

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

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

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

#### Acute inhalation toxicity

LC50 rat (by inhalation): > 5.1 mg/l  
No mortality was observed. An aerosol was tested.

#### Acute dermal toxicity

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

#### Assessment of acute toxicity

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

#### 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

#### Irritation

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

Experimental/calculated data:  
Skin corrosion/irritation rabbit: (OECD Guideline 404)

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

#### Respiratory/Skin sensitization

Assessment of sensitization:  
Sensitization after skin contact possible.

Experimental/calculated data:  
guinea pig: (OECD Guideline 406)

#### 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. The results of various animal studies gave no indication of a carcinogenic effect.

## 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)

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: Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., calcium salts

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: cinmethylin (ISO); exo-(±)-1-methyl-2-(2-methylbenzyloxy)-4-isopropyl-7-oxabicyclo(2.2.1)heptane

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

## 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.



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## 12. Ecological Information

### Ecotoxicity

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

Toxicity to fish:  
LC50 (96 h) 5.86 mg/l, *Cyprinus carpio*

Aquatic invertebrates:  
EC50 (48 h) 14.46 mg/l, *Daphnia magna*

Aquatic plants:  
EC10 (72 h) 11.59 mg/l (growth rate), *Pseudokirchneriella subcapitata*

EC50 (72 h) 26.32 mg/l (growth rate), *Pseudokirchneriella subcapitata*

EC10 (72 h) 0.052 mg/l (growth rate), *Lemna gibba*

EC50 (7 d) 0.227 mg/l (growth rate), *Lemna gibba*

EC10 (14 d) 0.029 mg/l (growth rate), aquatic plant

EC50 (14 d) 0.784 mg/l (growth rate), aquatic plant

### Mobility

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

Information on: cinmethylin (ISO); exo-(±)-1-methyl-2-(2-methylbenzyloxy)-4-isopropyl-7-oxabicyclo(2.2.1)heptane

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.

### 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: cinmethylin (ISO); exo-(±)-1-methyl-2-(2-methylbenzyloxy)-4-isopropyl-7-oxabicyclo(2.2.1)heptane

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Not readily biodegradable (by OECD criteria).

### 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: cinmethylin (ISO); exo-(±)-1-methyl-2-(2-methylbenzyloxy)-4-isopropyl-7-oxabicyclo(2.2.1)heptane

Bioaccumulation potential:

Bioconcentration factor: 100

Accumulation in organisms is not to be expected.

**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:**

UN number or ID number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CINMETHYLIN)

Transport hazard class(es): 9, EHS

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

**Further information**

Hazchem Code:3Z

IERG Number:47

**Sea transport**

IMDG

UN number or ID number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CINMETHYLIN)

Transport hazard class(es): 9, EHS

Packing group: III

Environmental hazards: yes

Marine pollutant: YES

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Special precautions for user: EmS: F-A; S-F

### **Air transport**

IATA/ICAO

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

### **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.

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)

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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 Approval No: 86413

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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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