

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 06.05.2025  
Product: **Sharpen® Herbicide**

Version: 5.0

(30857752/SDS\_CPA\_AU/EN)

Date of print: 31.12.2025

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

**Product name:**  
**Sharpen® 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

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:  
Reproductive toxicity: Cat.2 (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:  
Warning

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**Hazard Statement:**

H361 Suspected of damaging 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 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):**

P391 Collect spillage.  
P308 + P313 IF exposed or concerned: 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.

**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

herbicide, water dispersible granules

herbicide, water dispersible granules

**Hazardous ingredients**

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saflufenacil (ISO); N'-[2-chloro-4fluoro-5-[1,2,3,6-tetrahydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)pyrimidin-1-yl]benzoyl]-N-isopropyl-N-methylsulfamide

Content (W/W): 70 %

Repr.: Cat. 2 (unborn child)

CAS Number: 372137-35-4

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 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.

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, foam, dry powder

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Specific hazards:

carbon monoxide, carbon dioxide, ammonia, hydrogen chloride, nitrogen oxides, sulfur oxides, halogenated compounds

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:

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:

Avoid dust formation. 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: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. 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.

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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:

Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Avoid dust formation.

### Storage

Segregate from foods and animal feeds.

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

Protect from temperatures above: 50 °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

Saflufenacil, 372137-35-4;

TWA value 0.824 mg/m<sup>3</sup> (BASF recomm. occupational exposure limit)

### Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:  
Chemical resistant protective gloves

Eye protection:  
Eye protection not required.

Body protection:  
Standard work clothes and shoes.

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Wash contaminated clothing before reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Before eating, drinking, or smoking, wash face and hands with soap and water.

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## 9. Physical and Chemical Properties

Form:	solid
Colour:	light brown
Odour:	odourless
Odour threshold:	not applicable, odour not perceivable

pH value:	approx. 4 - 6 (10 g/l, 25 °C)
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melting range:	approx. 189.9 - 193.4 °C
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Boiling point:	The product has not been tested.
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Flash point:	not applicable, the product is a solid
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Evaporation rate:	not applicable
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Flammability (solid/gas):	not highly flammable
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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.
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Ignition temperature:	not applicable, the product is a solid	
Thermal decomposition:	200 °C , 140 kJ/kg (onset temperature)	(DSC (OECD 113))
	250 °C , 310 kJ/kg (onset temperature)	(DSC (OECD 113))
	355 °C , 100 kJ/kg (onset temperature)	(DSC (OECD 113))
Self ignition:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. Temperature: 371 °C	(Method: Directive 92/69/EEC, A.16)
Self heating ability:	It is not a substance capable of spontaneous heating.	
SADT:	> 75 °C	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	The value has not be determined because of the high melting point.	
Density:	approx. 1.61 g/cm <sup>3</sup> (20 °C)	
Bulk density:	540 - 600 kg/m <sup>3</sup> (20 °C, 1,013 hPa) 585 - 645 kg/m <sup>3</sup> (20 °C, 1,013 hPa) Apparent density after tamping	
Relative vapour density (air):	not applicable	
Solubility in water:	dispersible	
Partitioning coefficient n-octanol/water (log Pow):	The statements are based on the properties of the individual components.	
Information on: saflufenacil (ISO); N'-{2-chloro-4-fluoro-5-[1,2,3,6-tetrahydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)pyrimidin-1-yl]benzoyl}-N-isopropyl-N-methylsulfamide		
Partitioning coefficient n-octanol/water (log Pow):	2.6 (20 °C; pH value: 1.7)	

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Viscosity, dynamic:	not applicable, the product is a solid
Viscosity, kinematic:	not applicable, the product is a solid

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Particle characteristics

Particle size distribution:	< 0.9 µm	(D10, other)
	2.4 µm	(D50, other)
	< 5.4 µm	(D90, other)

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## 10. Stability and Reactivity

Conditions to avoid:

See SDS section 7 - Handling and storage.

Thermal decomposition:	200 °C, 140 kJ/kg (DSC (OECD 113)) (onset temperature)
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Thermal decomposition:	250 °C, 310 kJ/kg (DSC (OECD 113)) (onset temperature)
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Thermal decomposition:	355 °C, 100 kJ/kg (DSC (OECD 113)) (onset temperature)
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Thermal decomposition:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.
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Substances to avoid:

strong oxidizing agents, strong acids, strong bases

Hazardous reactions:

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

The product is chemically stable.

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:

LD50rat (oral): &gt; 2,000 mg/kg

No mortality was observed.

#### Acute inhalation toxicity

LC50 (by inhalation): &gt; 5 mg/l 4 h

#### Acute dermal toxicity

LD50 rat (dermal): > 2,000 mg/kg

No mortality was observed.

### **Assessment of acute toxicity**

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

### **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:

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:

modified Buehler test guinea pig: Non-sensitizing.

### **Germ cell mutagenicity**

Assessment of mutagenicity:

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

### **Reproductive toxicity**

Assessment of reproduction toxicity:

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

### **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: saflufenacil (ISO); N'-{2-chloro-4fluoro-5-[1,2,3,6-tetrahydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)pyrimidin-1-yl]benzoyl}-N-isopropyl-N-methylsulfamide

Assessment of teratogenicity:

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

### **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:

No substance-specific organotoxicity was observed after repeated administration to animals. The product has not been tested. The statement has been derived from the properties of the individual components.

### **Aspiration hazard**

No aspiration hazard expected.

### **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) > 100 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (static)

Aquatic plants:

EC50 (72 h) 0.1157 mg/l (growth rate), *Pseudokirchneriella subcapitata*

EC10 (72 h) 0.0387 mg/l (growth rate), *Pseudokirchneriella subcapitata*

### **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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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: saflufenacil (ISO); N'-{2-chloro-4fluoro-5-[1,2,3,6-tetrahydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)pyrimidin-1-yl]benzoyl}-N-isopropyl-N-methylsulfamide  
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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: saflufenacil (ISO); N'-{2-chloro-4fluoro-5-[1,2,3,6-tetrahydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)pyrimidin-1-yl]benzoyl}-N-isopropyl-N-methylsulfamide  
Assessment bioaccumulation potential:  
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.  
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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:

UN number or ID number:	UN 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SAFLUFENACIL)
Transport hazard class(es):	9, EHS
Packing group:	III
Environmental hazards:	yes

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Special precautions for user:           None known

**Further information**

Hazchem Code:2Z  
IERG Number:47

**Sea transport**

IMDG

UN number or ID number:   UN 3077  
UN proper shipping name:   ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SAFLUFENACIL)  
Transport hazard class(es): 9, EHSM  
Packing group:               III  
Environmental hazards:       yes  
Marine pollutant: YES  
Special precautions for user:   EmS: F-A; S-F

**Air transport**

IATA/ICAO

UN number or ID number:   UN 3077  
UN proper shipping name:   ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SAFLUFENACIL)  
Transport hazard class(es): 9, EHSM  
Packing group:               III  
Environmental hazards:       yes  
Special precautions for user:   None known

**Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

**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.

**Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 kg or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2:10.2.7; IATA: A197; TDS: 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

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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: 62853

### **Registration status:**

AICIS, AU

Contains non-registered, non-listed substance., Individual registration may be required., Please contact your BASF representative.

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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.

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.