

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 25 May 2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Prosulfuron

1.1. Catalog No.:

677214

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
Fax. +49 34291 3372-39
contact@hpc-standards.com

1.4. Emergency telephone number

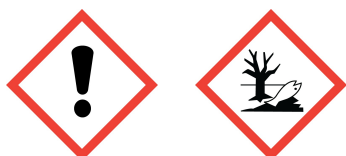
HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
· Classification according to Regulation (EC) No 1272/2008
environment
Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2 Label elements
· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

- Signal word Warning

- Hazard statements

H302+H312 Harmful if swallowed or in contact with skin.

H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

- CAS No. Description

94125-34-5 prosulfuron

- Identification number(s) None

- EC number: 619-000-2

- Index number: 016-084-00-7

- RTECS: DB2925200

3.1.1. Formula

C₁₅H₁₆F₃N₅O₄S

3.1.2. Molecular Weight (g/mol)

419.38

3.1.3. CAS-No.

94125-34-5

4. FIRST AID MEASURES

4.1 Description of first aid measures

· General information:

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

· After eye contact: Rinse opened eye for several minutes under running water.

· After swallowing:

Rinse mouth. Do not induce vomiting.

Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling Store in cool, dry place in tightly closed containers.

· Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements for storage rooms and containers:

For exact storage and transport temperatures, please refer to the manufacturers certificate of analysis.

Keep only in the original container unless otherwise specified in the CoA

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

· Information about storage in one common storage facility: Store away from foodstuffs.

- Further information about storage conditions: None.
- Storage class: 13
- Classification according to the Ordinance on Industrial Safety and Health (BetrSichV): -
- 7.3 Specific end use(s) No further relevant information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: Lists used were valid at the time of SDS preparation.

8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Respiratory protection:

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

Protective gloves

- Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection Safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- General Information
- Physical state Solid
- Colour: Beige
- Odour: Odourless
- Odour threshold: Not determined.
- Melting point/freezing point: 155 °C
- Boiling point or initial boiling point and boiling range Not determined.
- Flammability Not determined.
- Lower and upper explosion limit
- Lower: Not determined.
- Upper: Not determined.
- Flash point: Not applicable.
- Auto-ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- pH Not applicable.
- Viscosity:
- Kinematic viscosity Not applicable.
- Dynamic: Not applicable.
- Solubility Acetone, Toluene, Ethyl Acetate, Ethanol
- water at 20 °C: 4 g/l
- Partition coefficient n-octanol/water (log value) 1.5 LogP
- Vapour pressure: Not applicable.

- Density and/or relative density
- Density: Not determined.
- Relative density Not determined.
- Vapour density Not applicable.
- 9.2 Other information
- Appearance:
- Form: Solid
- Important information on protection of health and environment, and on safety.
- Ignition temperature: Not determined
- Explosive properties: Not determined.
- Change in condition
- Evaporation rate Not applicable.
- Information with regard to physical hazard classes
- Explosives Not applicable
- Not applicable
- Flammable gases Not applicable
- Not applicable
- Aerosols Not applicable
- Not applicable
- Oxidising gases Not applicable
- Not applicable
- Gases under pressure Not applicable
- Not applicable
- Flammable liquids Not applicable
- Not applicable
- Flammable solids Not applicable
- Not applicable
- Self-reactive substances and mixtures Not applicable
- Not applicable
- Pyrophoric liquids Not applicable
- Not applicable
- Pyrophoric solids Not applicable
- Not applicable
- Self-heating substances and mixtures Not applicable
- Not applicable
- Substances and mixtures, which emit flammable gases in contact with water Not applicable
- Not applicable
- Oxidising liquids Not applicable
- Not applicable
- Oxidising solids Not applicable
- Not applicable
- Organic peroxides Not applicable
- Not applicable
- Corrosive to metals Not applicable
- Not applicable
- Desensitised explosives Not applicable
- Not applicable

10. STABILITY AND REACTIVITY

- 10.1 Reactivity
- Stable under normal conditions.
- No further relevant information available.
- 10.2 Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:
- Formation of toxic gases is possible during heating or in case of fire.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid Heat.
- 10.5 Incompatible materials: Strong oxidizing agents.
- 10.6 Hazardous decomposition products:
- Formation of toxic gases is possible during heating or in case of fire.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity Harmful if swallowed or in contact with skin.

- LD/LC50 values relevant for classification:

Oral LD50 546 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

11.2 Information on other hazards

- Endocrine disrupting properties Substance is not listed.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

- Aquatic toxicity:

EC50/48 h >120 mg/l (daphnia)

EC50/72h 0.0089 mg/l (Algae)

LC50/96 h 155 mg/l (fish)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

- Remark: Very toxic for fish

- Additional ecological information:

- General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:

- Recommendation: Dispose of in accordance with national regulations.

14. TRANSPORT INFORMATION

14.1 UN number or ID number

- ADR, IMDG, IATA UN3077

- ADR 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (prosulfuron)
- IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (prosulfuron), MARINE POLLUTANT
- IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (prosulfuron)
- 14.3 Transport hazard class(es)
 - ADR, IMDG, IATA
 - Class 9 Miscellaneous dangerous substances and articles.
 - Label 9
- 14.4 Packing group
 - ADR, IMDG, IATA III
- 14.5 Environmental hazards:
 - Marine pollutant: Symbol (fish and tree)
 - Special marking (ADR): Symbol (fish and tree)
 - Special marking (IATA): Symbol (fish and tree)
- 14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles.
 - Hazard identification number (Kemler code): 90
 - EMS Number: F-A,S-F
 - Stowage Category A
 - Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
 - Transport/Additional information:
 - ADR
 - Limited quantities (LQ) 5 kg
 - Excepted quantities (EQ) Code: E1
 - Maximum net quantity per inner packaging: 30 g
 - Maximum net quantity per outer packaging: 1000 g
 - Transport category 3
 - Tunnel restriction code E
 - UN "Model Regulation": UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROSULFURON), 9, III

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Directive 2012/18/EU
 - Named dangerous substances - ANNEX I Substance is not listed.
 - Seveso category E1 Hazardous to the Aquatic Environment
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!