

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 07 May 2025

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

1.1. Product name:

Benzovindiflupyr

1.1. Catalog No.:

688215

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

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
Regulation (EC) No 1272/2008
Acute toxicity - Oral Category 3 - (H301)
Acute toxicity - Inhalation (Dusts/Mists) Category 3 - (H331)
Acute aquatic toxicity Category 1 - (H400)
Chronic aquatic toxicity Category 1 - (H410

2.2. Label elements

2.2.1. Pictogram





2.2.2.

2.2. Label elements 691-719-4 Signal word



Danger

Hazărd statements

H301 - Toxic if swallowed H331 - Toxic if inhaled

H410 - Very toxic to aquatic life with long lasting effects Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling

P203 - Wash race, hands and any exposed skill thoroughly chief handling
P273 - Avoid release to the environment
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P391 - Collect spillage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Chemical name Benzovindiflupyr

Chemical name Benzovindhupyr
EU - REACH (1907/2006) - Article 59(1)
- Candidate List of Substances of Very
High Concern (SVHC) for Authorisation
EU - REACH (1907/2006) - Endocrine
Disruptor Assessment List of

Substances

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name Benzovindiflupyr 1072957-71-1

Weight-% 100
REACH registrationnumber .-

EC No 691-719-4

Classification according to Regulation (EC) No.1272/2008 [CLP] Acute Tox. 3 (H301 Acute Tox. 3 (H331)

Aquatic Acute 1

(H400)

Aquatic Chronic 1 (H410)

Specific concentration limit (SCL) M-Factor 100

M-Factor (long-term) 100
Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name Benzovindiflupyr 1072957-71-1 Oral LD50 mg/kg 55

Dermal LD50 mg/kg 2000
Inhalation LC50 - 4 hour - dust/mist - mg/L No data available
Inhalation LC50 - 4 hour - vapour - mg/L No data available
Inhalation LC50 - 4 hour - gas - ppm No data available
Inhalation LC50 - 4 hour - gas - ppm No data available
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

3.1.1. Formula

C18H15Cl2F2N3O



3.1.2. Molecular Weight (g/mol)

398.23

3.1.3. CAS-No.

1072957-71-1

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

Inhalation If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor or poison control centre immediately Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.

4.2. Most important symptoms and effects, both acute and delayed Symptoms Coughing and/ or wheezing. Difficulty in breathing.
4.3. Indication of any immediate medical attention and special treatment needed Note to doctors Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.
Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available 5.3. Advice for firefighters

Special protective equipment and

precautions for fire fighters
Firefighters should wear self contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment



6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information Refer to protective measures listed in Sections 7 and 8.
For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Do not breathe dust. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning

of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

7.3. Specific end use(s)

Identified uses

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Hand protection The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Duration of contact

PPE - Glove material Wear protective Viton(TM)

gloves Glove thickness



Break through time

Skin and body protection Wear suitable protective clothing.
Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not breathe dust. Take off contaminated clothing and wash it before reuse.

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties Physical state Solid Appearance Powder Colour white
Odour Odourless.
Odour threshold No information available
Property Values Remarks o Method
Melting point / freezing point 148.4 °C None known
Boiling point / boiling range No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known Upper flammability or explosive No data available Lower flammability or explosive limits No data available Flash point No data available None known Autoignition temperature No data available None known Decomposition temperature None known pH No data available None known pH No data available None known
pH (as aqueous solution) 6.9 No information available
Kinematic viscosity No data available None known
Dynamic viscosity No data available None known
Water solubility 0.98 mg/L None known
Solubility(ies) Chloroform, Methanol, slightly soluble
Partition coefficient 4.3 None known
Vapour pressure No data available None known
Relative density 1.466 None known Vapour pressure No data available None known
Relative density 1.466 None known
Bulk density No data available
Liquid Density No data available
Relative vapour density No data available None known
Particle characteristics
Particle Size No information available
Particle Size Distribution No information available
9.2 Other information

Molecular weight 398.23
Molecular formula C18 H15 Cl2 F2 N3 O
9.2.1. Information with regards to physical hazard classes

9.2. Other information

No information available

9.2.2. Other safety characteristics

Not applicable



Reactivity No information available. 10.2. Chémical stability Stability Stable under normal conditions. Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None. 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Toxic by inhalation. (based on components).

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components)

Symptoms related to the physical, chemical and toxicological characteristics Symptoms Coughing and/ or wheezing. Difficulty in breathing.

Numerical measures of toxicity

Acute toxicity

Acute toxicity
Component Information
Chemical name Benzovindiflupyr
Oral LD50 = 55 mg/kg (Rat)
Dermal LD50 > 2000 mg/kg (Rat)
Inhalation LC50 > 0.56 mg/L (Rat) 4 h
Delayed and immediate effects well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available. Respiratory or skin sensitisation No information available.

Respiratory or skin sensitisation No information available. Germ cell mutagenicity No information available. Carcinogenicity No information available. Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. Aspiration hazard No information available 11.2. Information on other hazards 11.2.1. Endocrine disrupting properties Endocrine disrupting properties No information available. 11.2.2. Other information

Other adverse effects No information available

12. ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity Very toxic to aquatic life with long lasting effects Chemical name Benzovindiflupyr Algae/aquatic plants
Fish LC50: =3.5ug/L (96h, Cyprinus carpio) Toxicity to microorganisms Crustacea EC50 = 85 ug/L (48h, water fleas)



12.2. Persistence and degradability
Persistence and degradability No information available.
12.3. Bioaccumulative potential
Bioaccumulation There is no data for this product.
Component Information
Chemical name Partition coefficient
Benzovindiflupyr 4.3
12.4. Mobility in soil
Mobility in soil No information available.
12.5. Results of PBT and vPvB assessment
PBT and vPvB assessment No information available.
12.6. Endocrine disrupting properties
Endocrine disrupting properties No information available
12.7. Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste from residues/unused
products
Dispose of in accordance with local regulations. Dispose of waste in accordance with
environmental legislation.
Contaminated packaging Do not reuse empty containers

14. TRANSPORT INFORMATION

14.1 UN number or ID number UN2588

14.2 UN proper shipping name Pesticide, solid, toxic, n.o.s. (Benzovindiflupyr)

14.3 Transport hazard class(es) 6.1

14.4 Packing group III

Description UN2588, Pesticide, solid, toxic, n.o.s. (Benzovindiflupyr), 6.1, III, Marine pollutant 14.5 Marine pollutant P

Environmental hazards Yes

14.6 Special precautions for user

Special Provisions 61, 223, 274

EmS-No F-A, S-A No information available

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Water hazard class (WGK) strongly hazardous to water (WGK 3) European Union



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Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical

ať work.

Authorisations and/or restrictions on use:
This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

H2 ACUTE TOXIC
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name Plant protection products directive (91/414/EEC)
Benzovindiflupyr 1072957 71 1 Plant protection agent
15.2. Chemical safety assessment
Chemical Safety Report A Chemical Safety Assessment has been carried out for this substance

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!