

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 27 Feb 2025

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

#### 1.1. Product name:

Bicyclopyrone

#### 1.1. Catalog No.:

689964

# 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 2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008
Serious eye damage/eye irritation Category 2 - (H319)
Reproductive toxicity Category 1B - (H360)
Specific target organ toxicity -- single exposure Category 3 - (H335)
Specific target organ toxicity -- repeated exposure Category 2 - (H373)
Chronic aquatic toxicity Category 3 - (H412)

# 2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2. Label elements **Contains Bicyclopyrone** 



Signal word

Danger

Hazard statements

- H319 Causes serious eye irritation H335 May cause respiratory irritation
- H360 May damage fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects Precautionary Statements - EU (§28, 1272/2008) P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapours/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P312 - Call a POISON CENTER or doctor if you feel unwell P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

- P501 Dispose of contents/ container to an approved
- 2.3. Other hazards

Harmful to aquatic life. This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. This product does not contain any known or suspected endocrine disruptors.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Chemical name: Bicyclopyrone CAS: 352010-68-5 EC No (EU Index No): 688-487-1 Classification according Classification according to Regulation (EC) No. 1272/2008 [CLP] Eye Irrit. 2 (H319) Repr. 1B (H360) STOT SE 3 (H335) STOT RE 2 (H373) Aquatic Chronic 3 (H412) Full text of H- and EUH-phrases: see section 16 Acute Toxicity Estimate No information 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

C19H20F3NO5

399.36



#### 3.1.3. CAS-No.

352010-68-5

# 4. FIRST AID MEASURES

4.1. Description of first aid measures

4.1. Description of instand measures General advice Show this safety data sheet to the doctor in attendance. Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

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

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor. Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). 4.2. Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation. 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. Use personal protective equipment as required. Evacuate personal proceedings Ensure adequate vernitation. Ose personal protective equal personnel to safe areas. Avoid contact with skin, eyes or clothing. 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.
 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

NDLING 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 eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations 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. Wash hands before breaks and immediately after handling the product.
7.2. Conditions for safe storage, including any incompatibilities
Storage Conditions 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.
Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.
7.3. Specific end use(s)

7.3. Specific end use(s) Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

a.1. Control parameters
 Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits This product, as supplied, does not contain any hazardous materials with 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)

(PNEC)

(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). If splashes are likely to occur, wear safety glasses with side-shields. Hand protection Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber cloves. Wear protective gloves.

gloves . Wear protective gloves . 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 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. Wash hands before breaks and immediately after handling the product. 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 Solid Colour off-white Odour No information available. Odour threshold No information available Property Values Remarks o Method Melting point / freezing point 65.3 °C Initial boiling point and boiling range489.5 °C Flammability No data available None known Flammability Limit in Air None known None known None known Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available Flash point 249.9 °C Autoignition temperature None known No data available None known Decomposition temperature None known pH No data available None known pH (as aqueous solution) No data available No information available kinematic viscosity No data available None known Dynamic viscosity No data available None known Water solubility No data available None known Solubility(ies) Partition coefficient Acetone, Ethyl acetate, Toluene -1.2 Nor None known Vapour pressure No data available None known Relative density 1.503 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 399.37 Molecular formula C 19H20F 3NO 5 9.2.1. Information with regards to physical hazard classes Not applicable 9.2.2. Other safety characteristics No information available

# **10. STABILITY AND REACTIVITY**

10.1. Reactivity
Reactivity No information available.
10.2. Chemical 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 None known based on information supplied.
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.
Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.
(based on components). May cause redness, itching, and pain.
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.
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Symptoms related to the physical, chemical and toxicological characteristics
Symptoms May cause redness and tearing of the eyes.
Numerical measures of toxicity
Acute toxicity
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation classification based on data available for ingredients. Causes serious eye irritation.
Reproductive toxicity Contains

Other adverse effects No information available.

#### **12. ECOLOGICAL INFORMATION**

12.1. Toxicity
Ecotoxicity Harmful to aquatic life with long lasting effects.
Crustacea
EC50: 46.7 mg/l (Daphnia magna, 48h)
12.2. Persistence and degradability
Persistence and degradability No information available.
12.3. Bioaccumulative potential
Bioaccumulation There is no data for this product.
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.

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**

IATA

- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user Special Provisions None
- ÌMDG
- 14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated

- 14.4 Packing group Not regulated 14.5 Marine pollutant Not applicable 14.6 Special precautions for user
- Special Provisions None No information available
- 14.7 Maritime transport in bulk according to IMO instruments
- No information available
- RID
- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user
- Special Provisions None
- ADR
- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user Special Provisions
- None

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

at work Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This

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

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA Complies under research and development exemption or is regulated by a different

SUPPORT SUPPOR

KECL Contact supplier for inventory compliance status PICCS Contact supplier for inventory compliance status

AIIC Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory



Seite 8/8

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances 15.2. Chemical Safety Assessment is not required for this substance

Chemical Safety Report A Chemical Safety Assessment is not required 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!