

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 24 Aug 2022

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

1.1. Product name:

Pyridate

1.1. Catalog No.:

675283

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 4 - (H302) Skin corrosion/irritation Category 2 - (H315) Skin sensitisation Category 1 - (H317) 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 259-686-7



Contains pyridate (ISO) Signal word Warning Hazard statements H302 - Harmful if swallowed H315 - Causes skin irritation H317 - May cause an allergic skin reaction H410 - Very toxic to aquatic life with long lasting effects Precautionary Statements - EU (§28, 1272/2008) P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P264 - Wash face, hands and any exposed skin thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves P391 - Collect spillage 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 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 pyridate (ISO)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name pyridate (ISO)55512-33-9 Weight-% 100 REACH registrationnumber :(-) EC No 259-686-7 Classification according to Regulation (EC) No.1272/2008 [CLP]:Acute Tox. 4 (H302) Skin Irrit. 2 (H315)Skin Sens. 1 (H317)Aquatic Acute 1(H400)Aquatic Chronic 1 (H410) Specific concentration limit (SCL):M=1M(Chronic)=10oral:ATE =500 mg/kg (-) M-Factor M-Factor(long-term) 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:pyridate (ISO)55512-33-9 Oral LD50 mg/kg 500 +1431 Dermal LD50 mg/kg 500 +1431 Dermal LD50 reg/kg:3400 Inhalation LC50 - 4 hour - vapour - mg/L Inhalation LC50 - 4 hour - space - mg/L Inhalation LC50 - 4 hour - gas - ppmNo 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

C19H23CIN2O2S



3.1.2. Molecular Weight (g/mol)

378.92

3.1.3. CAS-No.

55512-33-9

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

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

Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes. 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 Itching. Rashes. Hives

4.3. Indication of any immediate medical attention and special treatment needed Note to doctors May cause sensitisation in susceptible persons. 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

Product is or contains a sensitiser. May cause sensitisation by skin contact.

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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. 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 Prevent further leakage or spillage if safe to do so.

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 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 containinated 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. Ensure adequate ventilation. In case of insufficient ventilation, wear

suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take

off contaminated clothing and wash it before reuse.

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.

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. 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)

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 Wear suitable gloves. Impervious gloves. 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 Glove thickness Break through time

Wear protective Viton(TM)

gloves

Skin and body protection Long sleeved clothing. 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.



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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 with a low melting point Colour colourless Odour No information available. Odour No information available. Odour threshold No information available Property Values Remarks o Method Melting point / freezing point 27 °C None known Boiling point / boiling range > 160 °C None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known Upper flammability or explosive limits limits No data available Lower flammability or explosive limits No data available Flash point 131 °C None known Autoignition temperature No data available None known Decomposition temperature > 160 °C 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 1.49 mg/L None known Solubility(ies) No data available None known Partition coefficient 4.01 None known Vapour pressure 4.8e-9 hPa None known Relative density 1.16 g/cm³ 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 378.95 Molecular formula C19H23CIN2O2S 9.2.1. Information with regards to physical hazard classes Not applicable > 160 °C > 160 °C 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
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 Strong acids. Strong bases. Strong oxidising agents. 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. May cause irritation of respiratory tract. Eve contact Specific test data for the substance or mixture is not available. Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation. Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components). Symptoms related to the physical, chemical and toxicological characteristics Symptoms Itching. Rashes, Hives. Redness. May cause redness and tearing of the eyes. Numerical measures of toxicity Acute toxicity Component Information Chemical name Oral LD50 Dermal LD50 Inhalation LC50 pyridate (ISO) = 1431 mg/kg (Rat) = 3400 mg/kg (Rabbit) > 4.37 mg/L (Rat) 4 h Delayed and immediate effects as well as chronic effects from short and long-term exposure Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin. Serious eye damage/eye irritation No information available. Respiratory or skin sensitisation May cause sensitisation by skin contact. 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: pyridate (ISO) Algae/aquatic plants EC50: =4.93mg/L (96h, Pseudokirchneriella subcapitata) EC50: =82mg/L (96h, Desmodesmus subspicatus) EC50: =4.93mg/L (96h, Pseudokirchneriella subcapitata) Fish LC50: =1.2mg/L (96h, Oncorhynchus mykiss) LC50: =440mg/L (96h, Lepomis macrochirus) LC50: =61.1mg/L (96h,



Cyprinus carpio) LC50: >1.2mg/L (96h, Oncorhynchus mykiss) LC50: >2mg/L (96h, Lepomis macrochirús) LC50: >2.1mg/L (96h, Lepomis macrochirus) LC50: >20mg/L (96h, Oncorhynchus mykiss Toxicity to microorganisms (-) Crustacea EC50: 1.02 - 1.15mg/L (48h, Daphnia magna) EC50: =0.83mg/L (48h, Daphnia magna 12.2. Persistence and degradability Persistence and degradability No information available. 12.3. Bioaccumulative potential Bioaccumulation There is no data for this product. Bioaccumulation There is no data for this product. Component Information Chemical name Partition coefficient pyridate (ISO) 4.01 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. 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 UN3077 14.2 UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (pyridate (ISO)) 14.3 Transport hazard class(es) 9 14.4 Packing group III Description UN3077, Environmentally hazardous substances, solid, n.o.s. (pyridate (ISO)), 9, III 14.5 Environmental hazards Yes 14.6 Special precautions for user Special Provisions A97, A158, A179, A197, A215 ERG Code 9L IMDG 14.1 UN number or ID number UN3077 14.2 UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (pyridate (ISO)) 14.3 Transport hazard class(es) 9 14.4 Packing group III Description UN3077, Environmentally hazardous substances, solid, n.o.s. (pyridate (ISO)), 9, III, Marine pollutant 14.5 Marine pollutant P



14.6 Special precautions for user Special Provisions 274, 335, 966, 967, 969 EmS-No F-A, S-F No information available 14.7 Maritime transport in bulk according to IMO instruments No information available RID 14.1 UN number or ID number UN3077 14.2 UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (pyridate (ISO)) 14.3 Transport hazard class(es) 9 14.4 Packing group III Description UN3077, Environmentally hazardous substances, solid, n.o.s. (pyridate (ISO)), 9, III 14.5 Environmental hazards Yes 14.6 Special precautions for user Special Provisions 274, 335, 375, 601 Classification code M7 ADR 14.1 UN number or ID number UN3077 14.2 UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (pyridate (ISO)) 14.3 Transport hazard class(es) 9 14.4 Packing group III Description UN3077, Environmentally hazardous substances, solid, n.o.s. (pyridate (ISO)), 9, III, (-) 14.5 Environmental hazards Yes 14.6 Special precautions for user Special Provisions 274, 335, 601, 375 Classification code M7 Tunnel restriction code (-)

15. REGULATORY INFORMATION

Environmental hazards Yes

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. Authorisations and/or restrictions on use: This product does not contain substances subject to authorisation (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 Dangerous substance category per Seveso Directive (2012/18/EU) E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1 Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable Plant protection products directive (91/414/EEC) Chemical name Plant protection products directive (91/414/EEC) pyridate (ISO) - 55512-33-9 Plant protection agent International Inventories TSCA Contact supplier for inventory compliance status DSL/NDSL Contact supplier for inventory compliance status EINECS/ELINCS Contact supplier for inventory compliance status ENCS Contact supplier for inventory compliance status IECSC Contact supplier for inventory compliance status KECL Contact supplier for inventory compliance status PICCS Contact supplier for inventory compliance status AICS Contact supplier for inventory compliance status Legend: TSCA - United States Toxic Substances Control Act Section 8(b) Inventory 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



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!