

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) 2015/830)

Pyridine-d5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Pyridine-d5

CAS-No. 7291-22-7 **EC-No.** 230-720-2 **Product code** None.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture Solvent for NMR spectroscopy

1.3. Details of the supplier of the safety data sheet

Company/UndertakingZeochem AG, www.zeochem.chIdentificationJoweid 5, 8630 Rüti, Schweiz

Tel.: +41 44 922 93 93 E-Mail: info@zeochem.ch

1.4. Emergency telephone

number

Tox-Zentrum Zürich: 145 / +41 44 251 51 51 [24h/7d]

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Version GHS 4 (Previous versions: GHS 3)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Acute toxicity, inhal., Vapours, Cat. 4, H332

Acute toxicity, dermal, Cat. 4, H312 Acute toxicity, oral, Cat. 4, H302

Flammable liquids, Cat. 2, H225

Additional information

For the full text of the phrases mentioned in this Section, see

Section 16.

2.2. Label elements





Signal Word Danger

Hazard Statements H225: Highly flammable liquid and vapour.

H302+H312+H332: Harmful if swallowed, in contact with skin or if

inhaled.

Precautionary statements P210b: Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. P233: Keep container tightly closed.

P243: Take precautionary measures against static discharge. P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264a: Wash skin thoroughly after handling.

P280: Wear protective gloves/ protective clothing/ eye protection/

face protection.

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if

you feel unwell.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P330: Rinse mouth.

P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents/ container to an approved waste

disposal plant.

Supplemental information None.

Product identifier Pyridine-d5, CAS-No. 7291-22-7, EC-No. 230-720-2

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Components		Product identifier
Pyridine-d5	> 90%	CAS-No.: 7291-22-7 EC-No.: 230-720-2

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air. Consult a physician after significant exposure.

Skin contact Wash with water and soap as a precaution.

Eye contact Flush eyes with water as a precaution. If eye irritation persists,

consult a specialist.

Ingestion If conscious, drink plenty of water. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and

delayed

None known.

4.3. Indication of any immediate medical attention and special

treatment needed

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO2, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Solvents may produce excessive pressure under fire-conditions. Sealed containers may rupture and ignite. Cool containers / tanks with water spray. Burning produces irritant fumes.

5.3. Advice for firefighters

Special protective equipment for firefighters

Standard procedure for chemical fires.

Specific methods

Do not use a solid water stream as it may scatter and spread fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

Remove all sources of ignition. Pay attention to flashback.

Advice for emergency

responders

Handle in accordance with good industrial hygiene and safety

practice.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Clean up promptly by sweeping or vacuum. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated

place.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

MAK (Maximale Arbeitsplatzkonzentration): 5 ppm.

8.2. Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection

In case of mist, spray or aerosol exposure wear suitable personal

respiratory protection and protective suit.

Hand protection Gloves made of Nitril.

Eye protection Safety glasses.

Skin and body protection Wear as appropriate: Solvent-resistant apron and boots.

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Environmental exposure controls No special measures required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.
Colour Colourless.
Odour Characteristic.
Odour Threshold Not determined.
pH: 8.5 (1.5%)
Melting point/range: -42°C

Melting point/range: -42°C

Boiling point/range: 115°C

Flash point: 17°C

Evaporation Rate:Not determined.Flammability:Not determined.Explosion limits:10.6% / 1.7%Vapour pressure:20 mbar (20°C)

Vapor density: 2.73 Relative density: 1.05 g/ml

Water solubility: completely soluble

Partition coefficient (n- 0.65

octanol/water):

Autoignition temperature: 550°C

Decomposition temperature:Not determined.Viscosity:Not determined.Explosive properties:liquid, flammable

Oxidising properties: None

9.2. Other information

General Product Characteristics No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity No information available.

10.2. Chemical stability No decomposition if used as directed.

10.3. Possibility of hazardous

reactions

No information available.

10.4. Conditions to avoid Heating in air.

10.5. Incompatible materials Incompatible with oxidizing agents.

10.6. Hazardous decomposition

products

None under normal use.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity LD50/oral/rat = 891 mg/kg. LD50/dermal/rabbit = 1120 mg/kg.

Skin corrosion/irritation No data available.

Serious eye damage/eye

irritation

No data available.

Respiratory / Skin Sensitisation None.

Carcinogenicity Carcinogenicity classification not possible from current data.

Germ cell mutagenicity In vitro tests did not show mutagenic effects. In vivo tests did not

show mutagenic effects.

Reproductive toxicity No data available.

Specific target organ toxicity

(single exposure)

No data available.

Specific target organ toxicity

(repeated exposure)

No data available.

Aspiration hazard No data available.

Human experience No data available.

SECTION 12: Ecological information

12.1. Toxicity EC50/48h/daphnia = 240 mg/l. LC50/96h/fish = 6.3 mg/l.

EC50/96h/algae = 110 mg/l.

12.2. Persistence and

degradability

Readily biodegradable.

12.3. Bioaccumulative potential Does not bioaccumulate.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

No information available.

12.6. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Can be incinerated, when in compliance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

ADR/RID UN 1282.

Proper shipping name: PYRIDINE.

Class 3.

Packing group II.
ADR/RID-Labels 3.
Classification code F1.
Hazard identification no. 33.
Limited quantity 1 L.
Excepted quantity E2.
Tunnel restriction code D/E

IMDG UN 1282.

Proper shipping name: PYRIDINE.

Class 3.

Packing group II. IMDG-Labels 3. Limited quantity 1 L. Excepted quantity E2. EmS F-E, S-D. Marine pollutant: No.

IATA UN 1282.

Proper shipping name: Pyridine.

Class 3.

Packing group II. IATA label 3.

Packing instruction (passenger aircraft): 353 (5 L).

Packing instruction (LQ): Y341 (1 L).

Packing instruction (cargo aircraft): 364 (60 L).

Inland navigation ADN UN 1282.

Proper shipping name: PYRIDINE.

Class 3.

Packing group II. ADN labels 3.

Classification code F1. Limited quantity 1 L. Excepted quantity E2.

Further Information None.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information The product is classified and labelled according to Regulation (EC)

No. 1272/2008.

15.2. Chemical safety

assessment

Not required.

SECTION 16: Other information

Key or legend to abbreviations

and acronyms

CLP: Classification according to Regulation (EC) No. 1272/2008

MAK: Occupational exposure limit.

Full text of phrases referred to

under sections 2 and 3

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

Further information Take notice of the directions of use on the label.

Disclaimer The information provided in this Safety Data Sheet is correct to the

best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal

and release. It is not to be considered a warranty or quality

specification.