

## Safety Data Sheet

## Pyridine-d5

Classification acc. to 29 CFR 1910.1200

Version number: GHS 5.0  
Replaces version of: 2025-06-10 (GHS 4)

Revision: 2025-06-11

### SECTION 1: Identification

#### 1.1 Product identifier

|                                 |                    |
|---------------------------------|--------------------|
| Identification of the substance | <b>Pyridine-d5</b> |
| CAS number                      | 7291-22-7          |
| Alternative name(s)             | C5D5N              |

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

|                          |   |
|--------------------------|---|
| Relevant identified uses | the product is intended for research, analysis and scientific education<br>scientific research and development<br>product and process oriented research and development<br>laboratory and analytical use<br>laboratory chemical |
| HS code                  | 2845.90.  |

#### 1.3 Details of the supplier of the safety data sheet

|   |   |
|---|---|
| Zeochem AG<br>Joweid 5, CH-8630 Rüti<br>Switzerland | Telephone: +41 44 922 93 93<br>e-Mail: <a href="mailto:info@zeochem.com">info@zeochem.com</a><br>Website: <a href="https://www.zeochem.com">https://www.zeochem.com</a> |
|---|---|

#### 1.4 Emergency telephone number

| Poison center |                                      |                                     |
|---------------|--------------------------------------|-------------------------------------|
| Country       | Name                                 | Telephone                           |
| Switzerland   | Toxzentrum Zürich / Tox. Info Suisse | +41 44 251 51 51 / CH: 145 - 24h/7d |
| United States | CHEMTREC USA                         | +1 800 424 9300 - 24h/7d            |

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| A.1O    | acute toxicity (oral)             | 4        | Acute Tox. 4              | H302             |
| A.1D    | acute toxicity (dermal)           | 4        | Acute Tox. 4              | H312             |
| A.1I    | acute toxicity (inhal.)           | 4        | Acute Tox. 4              | H332             |
| A.2     | skin corrosion/irritation         | 2        | Skin Irrit. 2             | H315             |
| A.3     | serious eye damage/eye irritation | 2        | Eye Irrit. 2              | H319             |
| A.6     | carcinogenicity                   | 2        | Carc. 2                   | H351             |
| B.6     | flammable liquid                  | 2        | Flam. Liq. 2              | H225             |

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For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

#### 2.2.1.2 Pictograms

|                        |  |
|------------------------|--|
| GHS02, GHS07,<br>GHS08 |    |
|------------------------|--|

| Hazard statements |  |
|-------------------|--|
| H225              | highly flammable liquid and vapor                        |
| H302+H312+H332    | harmful if swallowed, in contact with skin or if inhaled |
| H315              | causes skin irritation                                   |
| H319              | causes serious eye irritation                            |
| H351              | suspected of causing cancer                              |

| Precautionary statements |   |
|--------------------------|---|
| P201                     | obtain special instructions before use  |
| P210                     | keep away from heat/sparks/open flames/hot surfaces. No smoking   |
| P233                     | keep container tightly closed   |
| P240                     | ground/bond container and receiving equipment   |
| P241                     | use explosion-proof electrical/ventilating/lighting equipment   |
| P242                     | use only non-sparking tools   |
| P243                     | take precautionary measures against static discharge  |
| P261                     | avoid breathing dust/fume/gas/mist/vapors/spray   |
| P270                     | do not eat, drink or smoke when using this product  |
| P271                     | use only outdoors or in a well-ventilated area  |
| P280                     | wear protective gloves/eye protection/face protection   |
| P301+P312                | if swallowed: Call a poison center/doctor if you feel unwell  |
| P302+P352                | if on skin: Wash with plenty of water   |
| 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   |
| P305+P351+P338           | if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P312                     | call a poison center/doctor if you feel unwell  |
| P321                     | specific treatment (see on this label)  |

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| Precautionary statements |  |
|--------------------------|--|
| P330                     | rinse mouth  |
| P362                     | take off contaminated clothing and wash before reuse   |
| P362+P364                | take off contaminated clothing and wash it before reuse  |
| P362+P364                | take off contaminated clothing and wash it before reuse  |
| P370+P378                | in case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish                     |
| P403+P235                | store in a well-ventilated place. Keep cool  |
| P405                     | store locked up  |
| P501                     | dispose of contents/container in accordance with local/regional/national/international regulations |

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |             |
|-------------------|-------------|
| Name of substance | Pyridine-d5 |
| Identifiers       |             |
| CAS No            | 7291-22-7   |
| Purity            | >90 %       |
| Molecular formula | C5D5N       |
| Molar mass        | 84.1 g/mol  |

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

### 4.3 Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Neutralization techniques. Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materi-

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als: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

Store in a dry place.

##### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

##### - Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

##### - Handling of incompatible substances or mixtures

Do not mix with acids.

##### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Managing of associated risks

##### - Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

##### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

##### - Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

##### - Specific designs for storage rooms or vessels

##### - Storage temperature

Recommended storage temperature: 6 – 15 °C

##### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

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| Occupational exposure limit values (Workplace Exposure Limits) |               |          |            |           |             |            |              |                 |                   |          |                  |
|--|---------------|----------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------|------------------|
| Country  | Name of agent | CAS No   | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source           |
| US   | pyridine      | 110-86-1 | PEL (CA)   | 5         | 15          |            |              |                 |                   |          | Cal/OSH A PEL    |
| US   | pyridine      | 110-86-1 | REL        | 5 (10 h)  | 15 (10 h)   |            |              |                 |                   |          | NIOSH REL        |
| US   | pyridine      | 110-86-1 | TLV®       | 1         |             |            |              |                 |                   |          | ACGIH® 2023      |
| US   | pyridine      | 110-86-1 | PEL        | 5         | 15          |            |              |                 |                   |          | 29 CFR 1910.1000 |

### Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur  
STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)  
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### Human health values

| Relevant DNELs and other threshold levels |                   |                                    |                   |                            |
|---|-------------------|------------------------------------|-------------------|----------------------------|
| Endpoint                                  | Threshold level   | Protection goal, route of exposure | Used in           | Exposure time              |
| DNEL                                      | 2.5 mg/m³         | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| DNEL                                      | 7.5 mg/m³         | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| DNEL                                      | 0.14 mg/kg bw/day | human, dermal                      | worker (industry) | chronic - systemic effects |
| DNEL                                      | 0.42 mg/kg bw/day | human, dermal                      | worker (industry) | acute - systemic effects   |

### Environment values

| Relevant PNECs and other threshold levels |                 |                       |                              |                              |
|---|-----------------|-----------------------|------------------------------|------------------------------|
| Endpoint                                  | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| PNEC                                      | 0.3 mg/l        | aquatic organisms     | freshwater                   | short-term (single instance) |
| PNEC                                      | 0.03 mg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| PNEC                                      | 2 mg/l          | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| PNEC                                      | 3.2 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| PNEC                                      | 0.32 mg/kg      | aquatic organisms     | marine sediment              | short-term (single instance) |
| PNEC                                      | 0.46 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |

## 8.2 Exposure controls

Appropriate engineering controls

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General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

Nitrile

IIR: isobutene-isoprene (butyl) rubber

- Breakthrough times of the glove material

>30 minutes (permeation: level 2)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### Appearance

|                |                       |
|----------------|-----------------------|
| Physical state | liquid                |
| Color          | colorless             |
| Particle       | not relevant (liquid) |
| Odor           | pungent               |

##### Other safety parameters

|   |                                    |
|---|------------------------------------|
| pH (value)                              | 8.5 (in aqueous solution: 0.2 g/l) |
| Melting point/freezing point            | -41.6 °C at 1.01 hPa               |
| Initial boiling point and boiling range | 115 °C at 1.01 hPa                 |
| Flash point                             | 20 °C at 1.01 hPa (closed cup)     |
| Evaporation rate                        | not determined                     |
| Flammability (solid, gas)               | not relevant, (fluid)              |

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|                |                                   |
|----------------|-----------------------------------|
| Vapor pressure | 20 mmHg at 25 °C                  |
| Density        | 1.05 g/cm³ at 25 °C               |
| Vapor density  | this information is not available |

### Solubility(ies)

|                    |                    |
|--------------------|--------------------|
| - Water solubility | 1,000 g/l at 20 °C |
|--------------------|--------------------|

### Partition coefficient

|                                       |   |
|---------------------------------------|---|
| - n-octanol/water (log KOW)           | 0.64 (pH value: 7, 20 °C) (ECHA)  |
| - Soil organic carbon/water (log KOC) | 1.86 (ECHA)   |
| Auto-ignition temperature             | 900 °C at 1.01 hPa (ECHA) (auto-ignition temperature (liquids and gases)) |

### Viscosity

|                       |                      |
|-----------------------|----------------------|
| - Kinematic viscosity | 0.837 mm²/s at 25 °C |
| - Dynamic viscosity   | 0.879 mPa s at 25 °C |
| Explosive properties  | none                 |
| Oxidizing properties  | none                 |

## 9.2 Other information

|  |  |
|--|--|
| Surface tension                          | 36.6 mN/m (25 °C) (ECHA)   |
| Refractive index                         | 1.51 (20 °C)   |
| Temperature class (USA, acc. to NEC 500) | T1 (maximum permissible surface temperature on the equipment: 450°C) |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Acids, Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

#### - Acute toxicity estimate (ATE)

|                   |              |
|-------------------|--------------|
| Oral              | >800 mg/kg   |
| Dermal            | >1,000 mg/kg |
| Inhalation: vapor | 11 mg/l/4h   |

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Suspected of causing cancer.

| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans |          |                |        |
|---|----------|----------------|--------|
| Name of substance   | CAS No   | Classification | Number |
| Pyridine-d5   | 110-86-1 | 2B             |        |

#### Legend

2B Possibly carcinogenic to humans

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

##### Biodegradation

The substance is readily biodegradable.

| Process of degradability |                  |      |
|--------------------------|------------------|------|
| Process                  | Degradation rate | Time |
| DOC removal              | 97 %             | 19 d |
| oxygen depletion         | 0 %              | 30 d |

#### 12.3 Bioaccumulative potential

Data are not available.

|                           |                                  |
|---------------------------|----------------------------------|
| n-octanol/water (log KOW) | 0.64 (pH value: 7, 20 °C) (ECHA) |
|---------------------------|----------------------------------|

#### 12.4 Mobility in soil

|  |             |
|--|-------------|
| The Organic Carbon normalised adsorption coefficient | 1.86 (ECHA) |
|--|-------------|

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Waste treatment-relevant information

Solvent reclamation/regeneration. Regeneration of bases.

##### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

##### Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

##### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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### SECTION 14: Transport information

#### 14.1 UN number

|           |         |
|-----------|---------|
| DOT       | UN 1282 |
| IMDG-Code | UN 1282 |
| ICAO-TI   | UN 1282 |

#### 14.2 UN proper shipping name

|           |          |
|-----------|----------|
| DOT       | Pyridine |
| IMDG-Code | PYRIDINE |
| ICAO-TI   | Pyridine |

#### 14.3 Transport hazard class(es)

|           |   |
|-----------|---|
| DOT       | 3 |
| IMDG-Code | 3 |
| ICAO-TI   | 3 |

#### 14.4 Packing group

|           |    |
|-----------|----|
| DOT       | II |
| IMDG-Code | II |
| ICAO-TI   | II |

#### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

#### 14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

##### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

|  |                              |
|--|------------------------------|
| Particulars in the shipper's declaration | UN1282, Pyridine, 3, II      |
| Reportable quantity (RQ)                 | 1,000 lbs (454 kg) (pyridin) |
| Danger label(s)                          | 3                            |



|                         |              |
|-------------------------|--------------|
| Special provisions (SP) | IB2, T4, TP2 |
| ERG No                  | 129          |

##### International Maritime Dangerous Goods Code (IMDG) - Additional information

|                  |   |
|------------------|---|
| Marine pollutant | - |
|------------------|---|

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Danger label(s) 3



Special provisions (SP) -

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category B

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 3



Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** substance is listed (ACTIVE)

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)  
not listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

#### Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance | CAS No   | Remarks | Effective date |
|-------------------|----------|---------|----------------|
| Pyridine-d5       | 110-86-1 |         | 1987-01-01     |

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No   | Remarks | Statutory code | Final RQ pounds (Kg) |
|-------------------|----------|---------|----------------|----------------------|
| Pyridine-d5       | 110-86-1 |         | 4              | 1000 (454)           |

#### Legend

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

#### Clean Air Act

not listed

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### Right to Know Hazardous Substance List

#### - Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No   | Functionality | Authoritative Lists                                   |
|-------------------|----------|---------------|---|
| Pyridine-d5       | 110-86-1 |               | ATSDR Neurotoxics<br>IARC Carcinogens - 2B<br>Prop 65 |

#### - Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No   | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-------------------|----------|----------|-----------------|---------------------|------------------------------------|
| Pyridine-d5       | 110-86-1 |          |                 |                     | 1.0 %                              |

#### - Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No   | References | Remarks |
|-------------------|----------|------------|---------|
| Pyridine-d5       | 110-86-1 | A, O       |         |

#### Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

#### - Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No   | Remarks | Classifications |
|-------------------|----------|---------|-----------------|
| Pyridine-d5       | 110-86-1 |         | F3              |

#### Legend

- F3 Flammable - Third Degree

#### - Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No   | Classification |
|------------------------|----------|----------------|
| PYRIDINE               | 110-86-1 | E              |

#### Legend

- E Environmental hazard

#### - Hazardous Substance List (RI-RTK)

| Name of substance | CAS No   | References |
|-------------------|----------|------------|
| Pyridine-d5       | 110-86-1 | T, F       |

#### Legend

- F Flammability (NFPA®)
- T Toxicity (ACGIH®)

## Safety Data Sheet

## Pyridine-d5

Classification acc. to 29 CFR 1910.1200

Version number: GHS 5.0  
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### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

| Proposition 65 List of chemicals |          |         |                      |
|----------------------------------|----------|---------|----------------------|
| Name acc. to inventory           | CAS No   | Remarks | Type of the toxicity |
| pyridine                         | 110-86-1 |         | cancer               |

### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description  |
|---------------------|--------|--|
| Chronic             | *      | chronic (long-term) health effects may result from repeated overexposure   |
| Health              | 2      | temporary or minor injury may occur  |
| Flammability        | 3      | material that can be ignited under almost all ambient temperature conditions   |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |  |

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of hazard | Description  |
|----------------|------------------|--|
| Flammability   | 3                | material that can be ignited under almost all ambient temperature conditions                     |
| Health         | 2                | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability    | 0                | material that is normally stable, even under fire conditions                                     |
| Special hazard |                  |  |

### National inventories

| Country | Inventory  | Status                       |
|---------|------------|------------------------------|
| EU      | REACH Reg. | substance is listed          |
| US      | TSCA       | substance is listed (ACTIVE) |

#### Legend

REACH Reg. REACH registered substances  
TSCA Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## Safety Data Sheet

## Pyridine-d5

Classification acc. to 29 CFR 1910.1200

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### SECTION 16: Other information, including date of preparation or last revision

#### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value)     | Safety-relevant |
|---------|---------------------------|-------------------------------|-----------------|
| 1.1     |                           | Alternative name(s):<br>C5D5N | yes             |

#### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                               |
|------|------------------------------------|
| H225 | Highly flammable liquid and vapor. |
| H302 | Harmful if swallowed.              |
| H312 | Harmful in contact with skin.      |
| H315 | Causes skin irritation.            |
| H319 | Causes serious eye irritation.     |
| H332 | Harmful if inhaled.                |
| H351 | Suspected of causing cancer.       |

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.