

## Safety Data Sheet

Sodium Pyruvate (100 mM)

According to Regulation (EC) No. 1907/2006 (REACH)

Date of compilation 04.10.2017

Revision Date 12.07.2024

Version 002/07.2024

Replaces version of 19.10.2023 (Version 001/10.2023)

### Section 1 Identification of the substance/mixture and of the company/undertaking

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#### Product identifiers

Product name: Sodium Pyruvate (100 mM)

Catalogue No.: NPY-B

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

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

Identified uses: Laboratory chemicals, Manufacture of substances  
For research and development or in-vitro diagnostic use only.  
Not for therapeutic use. Not for use on human subjects.

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

Company: Capricorn Scientific GmbH  
Auf der Lette 13 A  
35085 Ebsdorfergrund  
Germany  
Phone: +49 6424 94464 0  
E-Mail: [info@capricorn-scientific.com](mailto:info@capricorn-scientific.com)  
Website: [www.capricorn-scientific.com](http://www.capricorn-scientific.com)

#### Emergency telephone number

Emergency Phone: +49 6424 94464 0 (on workdays, Mon. to Fri. from 8:00 – 16:00 h CET/CEST)

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### Section 2 Hazards identification

#### Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317:

May cause an allergic skin reaction

#### Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

Hazard statement(s)

H317

May cause an allergic skin reaction.

H319

Cause serious eye irritation.

Precautionary statement(s)

P261

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P272

Contaminated work clothing should not be allowed out of the workplace.

P280

Wear protective gloves.

P302 + P352

Wash with plenty of water.

P362 + P364

Take off contaminated clothing and wash it before reuse.

Supplemental Hazard Statements

none.

#### Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

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### Section 3 Composition/information on ingredients

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#### Substances

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### Section 4 First aid measures

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#### Description of first aid measures

##### General notes

Show this material safety data sheet to the doctor in attendance.

##### Following skin contact

Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

##### Following eye contact

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Flush eyes with plenty of water. Remove contact lenses. If eye irritation persists, consult a specialist.

##### Following inhalation

Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

##### Following swallowing

Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. If symptoms persist, call a physician.

#### Self-protection of the first aider

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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### Section 5 Firefighting measures

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#### Suitable extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Carbon oxides, Sodium oxides, Carbon oxides, Sodium oxides, Not combustible. Ambient fire may liberate hazardous vapours.

#### Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing

#### Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### Section 6 Accidental release measures

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

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

Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

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### Section 7 Handling and storage

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#### Precautions for safe handling

Advice on safe handling

Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating, and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. To prevent leaks or spillages from spreading, provide a suitable liquid.

#### Advice on protection against fire and explosion

Normal measures for preventive fire protection.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

Requirements for storage Prevent unauthorized access. Keep container tightly closed in areas and containers a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

#### Storage class

Storage class (TRGS 510): 6.1D, Non-combustible, acute toxic Cat.3 / toxic or hazardous materials causing chronic effects.

#### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

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### Section 8 Exposure controls/personal protection

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#### Control parameters

Contains no substances with occupational exposure limit values.

#### Exposure controls

No data available.

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

#### Respiratory protection

Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.  
Recommended Filter type: Filter type P2

#### Skin protection

Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standards EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

#### Eye protection

Safety glasses with side-shields tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

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**Body protection** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No special precautionary measures necessary.

## Section 9 Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Form: liquid
Odor	None
pH	6,5 - 6,7 (25 °C)
Melting/freezing point	No data available
Boiling point and range	No data available
Flash point	Does not flash
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or exposure limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	Completely miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

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### Other information

No data available

## Section 10

### Stability and Reactivity

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#### Reactivity

No data available.

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

#### Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. Stable under recommended storage conditions. No hazards to be specially mentioned.

#### Incompatible materials

No data available

#### Hazardous decomposition products

None under normal use conditions. Other decomposition products: No data available.

In the event of fire: see section 5.



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### Section 11 Toxicological information

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#### Information on toxicological effects

**Acute toxicity****Skin corrosion/irritation**

harmful in contact with skin.

**Serious eye damage/eye irritation**

no information available

**Inhalation**

Mixture may cause allergy or asthma symptoms or breathing

difficulties if

inhaled.

**Ingestion**

no information available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

no information available

**Mutagenic effects**

no information available

**Sensitisation**

no information available

#### Additional Information

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### Section 12 Ecological information

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#### Toxicity

No data available.

#### Ecotoxicity effects

No data available.

#### Bioaccumulative potential

No data available.

#### Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Other adverse effects

No data available.

### Section 13 Disposal considerations

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#### Waste treatment methods

##### Product

Do not contaminate ponds, waterways, or ditches with chemical or used container. Send to a licensed waste management company. Can be disposed as waste mwater, when in compliance with local regulations

##### Contaminated packaging

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

##### Product / Packaging disposal:

##### Waste codes / waste designations according to LoW:

##### Waste treatment-relevant information:

##### Sewage disposal-relevant information:

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Other disposal recommendations:

### Section 14 Transport Information

In accordance with ADR / RID / IMDG / IATA

ADR/RID	IMDG	IATA
<b>UN number</b>		
-	-	-
<b>UN proper shipping name</b>		
Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>Transport hazard classes</b>		
-	-	-
<b>Packaging group</b>		
-	-	-
<b>Environmental hazards</b>		
no	Marine pollutant: no	no

Special precautions for user

Maritime transport in bulk according to IMO instruments

### Section 15 Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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### Section 16

### Other information

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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 regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product.