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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 27.05.2021 Revision: 27.05.2021 Version number 5.01 (replaces version 5.00)

SECTION 1: Identification of the substance/mixture undertaking	and of the company/
· 1.1 Product identifier	
· Trade name: <u>sodium pyruvate</u>	
<ul> <li>Article number: A4859</li> <li>CAS Number: 113-24-6</li> <li>EC number: 204-024-4</li> <li>Application of the substance / the mixture Chemical analytics Laboratory chemicals</li> </ul>	
• 1.3 Details of the supplier of the safety data sheet	
<ul> <li>Manufacturer/Supplier: AppliChem GmbH Ottoweg 4</li> <li>D-64291 Darmstadt</li> </ul>	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com
<ul> <li>Further information obtainable from: Dept. Compliance</li> <li>1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal but in the second s</li></ul>	uisness hours)
SECTION 2: Hazards identification	
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>Eye Irrit. 2 H319 Causes serious eye irritation.</li> <li>Skin Sens. 1 H317 May cause an allergic skin reaction.</li> </ul>	
<ul> <li>• 2.2 Label elements</li> <li>• Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.</li> <li>• Hazard pictograms</li> </ul>	
GHS07	
<ul> <li>Signal word Warning</li> <li>Hazard statements</li> <li>H319 Causes serious eye irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>Precautionary statements</li> </ul>	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	(Contd. on page 2)

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P280	Wear protective gloves / eye protection / face protection.	
P305+P351+P338	F IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P501	Dispose of contents/container in accordance with local/regional/national/	
	international regulations.	
· 2.3 Other hazards	S	
Results of PBT and vPvB assessment		

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

### **SECTION 3: Composition/information on ingredients**

#### · 3.1 Substances

- · CAS No. Description
- 113-24-6 sodium pyruvate Identification number(s)
- EC number: 204-024-4

# **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: Involve doctor immediately.
- After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Rinse out mouth.

If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Carbon monoxide and carbon dioxide

Non-combustible.

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

# **SECTION 6: Accidental release measures**

 • 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
 Avoid substance contact.
 Ensure adequate ventilation

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- (Contd. of page 2) · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up:
- Pick up mechanically. Avoid formation of dust. Clean up affected area.
- · 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling Any unavoidable deposit of dust must be regularly removed. · Information about fire - and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

- · Recommended storage temperature: Room Temperature
- · Storage class: 13
- · 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace: Not required.

· DNELs				
Oral	Long-term - systemic effects, general population		1,573 mg/kg	
Dermal	Long-term - systemic effects, worker		3,146 mg/kg	
	Long term - systemic effects, general p	opulation	1,573 mg/kg	
Inhalative	Long-term - systemic effects, worker		3,952 mg/m3	
	Long-term - systemic effects, general p	population	983 mg/m3	
· PNECs				
Aquatic co	mpartment - freshwater	0.019 mg/	19 mg/L	
Aquatic compartment - marine water 0.0		0.0019 mg/L		
Aquatic compartment - sediment in freshwater 0.013		0.0137 mg/kg		
Aquatic compartment - sediment in marine water 0.00137		0.00137 n	ng/kg	
Sewage treatment plant 1 mg/L		1 mg/L		
· Additiona	Additional information: The lists valid during the making were used as basis.			
Appropria Individual General p	ure controls te engineering controls No further da protection measures, such as perso rotective and hygienic measures: y from foodstuffs, beverages and feed.			

- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

### · Respiratory protection:

Required when dusts are generated. Filter P1

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#### · Hand protection

MP2

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0.11 mm Value for the permeation: Level  $\geq$  480 min

• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0.11 mm Value for the permeation: Level  $\geq$  480 min

· Eye/face protection



Tightly sealed goggles

· Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

# **SECTION 9: Physical and chemical properties**

• 9.1 Information on basic physical and ch	emical properties	
· General Information		
· Physical state	Solid	
· Colour:	White	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
<ul> <li>Melting point/freezing point:</li> </ul>	220-230 °C	
<ul> <li>Boiling point or initial boiling point and I</li> </ul>	boiling	
range	Undetermined.	
· Flammability	Product is not flammable.	
• Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
• Auto-ignition temperature:	Not determined.	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
· pH	5-7 (10%)	
· Viscosity:		
Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
· Solubility		
· water at 25 °C:	100-1000 g/l	
		(Contd. on page 5)

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· Partition coefficient n-octanol/water (log va	alue) -3.82391
· Vapour pressure:	Not applicable.
Density and/or relative density	
· Density at 20 °C:	1.72 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not applicable.
• 9.2 Other information	
· Appearance:	
· Form:	Crystalline powder
· Important information on protection of he	
and environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not applicable.
· Information with regard to physical haz	zard
classes	
· Explosives	Void
· Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
• Substances and mixtures, which emit	
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

# **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** strong oxidants
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

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- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

#### LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

· Components	Туре	Value	Species	
Oral LD50 3,533 mg/kg	g (rat)			

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- (Contd. of page 5) • Skin corrosion/irritation Based on available data, the classification criteria are not met. • Serious eye damage/irritation
- Causes serious eye irritation. • After inhalation: No irritant effect.
- Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- · 12.3 Bioaccumulative potential -3.83 log Pow
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

# **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information	ation	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
		(Contd. on page 7)

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<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
<ul> <li>14.7 Maritime transport in bulk accordi IMO instruments</li> </ul>	ng to Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Dept. Compliance

 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 \* \* Data compared to the previous version altered.