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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>	
 Article number: A4859 CAS Number: 113-24-6 EC number: 204-024-4 Application of the substance / the mixture Chemical analytics Laboratory chemicals 	
• 1.3 Details of the supplier of the safety data sheet	
 Manufacturer/Supplier: AppliChem GmbH Ottoweg 4 D-64291 Darmstadt 	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com
 Further information obtainable from: Dept. Compliance 1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal but in the second s	uisness hours)
SECTION 2: Hazards identification	
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. 	
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. • Hazard pictograms 	
GHS07	
 Signal word Warning Hazard statements H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. Precautionary statements 	
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.	
 Melting point/freezing point: 	220-230 °C	
 Boiling point or initial boiling point and I 	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.	
 Decomposition temperature: 	Not determined.	
· pH	5-7 (10%)	
· Viscosity:		
Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
· Solubility		
· water at 25 °C:	100-1000 g/l	
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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 ³
· 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	
 14.1 UN number or ID number ADR, ADN, IMDG, IATA 	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
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 14.4 Packing group ADR, IMDG, IATA 	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk accordi IMO instruments 	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.