

# Safety data sheet

according to 1907/2006/EC, Article 31

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Revision: 04.02.2021 Version number 5.00

SECTION 1: Identification of the substance/mixture undertaking	and of the company/
, and the second se	
· 1.1 Product identifier	
• Trade name: <u>Albumin</u>	
· Article number: A2244 · CAS Number:	
9048-46-8	
• EC number: 232-936-2	
· Registration number	tennere dece net requiere e
A registration number is not available for this substance as the annual registration.	
<ul> <li>1.2 Relevant identified uses of the substance or mixture and uses a No further relevant information available.</li> </ul>	dvised against
<ul> <li>Application of the substance / the mixture</li> </ul>	
Biochemistry Molecular biology	
Laboratory chemical	
1.3 Details of the supplier of the safety data sheet	
<ul> <li>Manufacturer/Supplier: AppliChem GmbH</li> </ul>	Tel.: +49 (0)6151 93570
Ottoweg 4 D-64291 Darmstadt	Fax.: +49 (0)6151 935711 msds@applichem.com
• Further information obtainable from: Dept. Compliance	msus@applichem.com
• <b>1.4 Emergency telephone number:</b> +49(0)6151 93570 (Inside normal b	ouisness 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>The substance is not classified, according to the CLP regulation.</li> </ul>	
· 2.2 Label elements	
• Labelling according to Regulation (EC) No 1272/2008 Void • Hazard pictograms Void	
· Signal word Void	
· Hazard statements Void · 2.3 Other hazards	
· Results of PBT and vPvB assessment	
• PBT: Not applicable.	

**vPvB:** Not applicable.

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Trade name: Albumin

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

- · 3.1 Substances
- CAS No. Description 9048-46-8 Albumin
- · Identification number(s)
- EC number: 232-936-2

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water. Immediately remove any clothing soiled by the product. If skin irritation continues, consult a doctor.

#### After eve contact:

Rinse opened eye for several minutes under running water. Seek medical treatment.

# After swallowing:

Rinse out mouth. make victim drink water (maximum of 2 drinking glasses)

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:

Water, CO2, foam, powder.

Use fire extinguishing methods suitable to surrounding conditions.

- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire. 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. Do not inhale dust. Ensure adequate ventilation
  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.

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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 Provide suction extractors if dust is formed.

· 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: Keep receptacles tightly sealed.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in a cool place.
- Keep container sealed.
- · Recommended storage temperature: +2 +8°C
- · 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.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Immediately remove all soiled and contaminated clothing
- · Respiratory protection:
- Filter P1
- Required when dusts are generated.
- Hand protection

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:  $\geq 0.11 \mbox{ mm}$ 

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:  $\geq 0.11 \text{ mm}$ 

- Value for the permeation: Level  $\geq$  480 min
- · Eye/face protection Safety glasses

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• **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 pr	operties
• 9.1 Information on basic physical and chemic	al properties
General Information	
· Physical state	Solid
· Colour:	Yellow-brown
· Odour:	Odourless
· Odour threshold:	Not determined.
<ul> <li>Melting point/freezing point:</li> </ul>	Undetermined.
Boiling point or initial boiling point and boilin	g
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.
∙рН	~7 (10%)
· Viscosity:	
<ul> <li>Kinematic viscosity</li> </ul>	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water at 20 °C:	1 g/l
Partition coefficient n-octanol/water (log value)	e) Not determined.
· Vapour pressure:	Not applicable.
Density and/or relative density	
· Density at 20 °C:	1.01 g/cm <sup>3</sup>
· Relative density	Not determined.
· Bulk density:	150 kg/m³
· Vapour density	Not applicable.
9.2 Other information	
· Appearance:	
Form:	Solid
Important information on protection of heal	'n
and environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
<ul> <li>Change in condition</li> <li>Evaporation rate</li> </ul>	Not applicable.
· Information with regard to physical hazar	
classes	м
· 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
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· 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.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** In the event of fire: See chapter 5

# **SECTION 11: Toxicological information**

- · 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.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · After inhalation: No irritant effect.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity

Based on available data, the classification criteria are not met.

- Based on available data, the classification criteria are not met.
- · Reproductive toxicity

Based on available data, the classification criteria are not met.

- 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 No further relevant information available.
- · 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.

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# 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.

#### · 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.

• **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information	า
<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
<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
· ADR, ADN, IMDG, IATA · Class	Void
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void
· 14.5 Environmental hazards:	Not applicable.
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.
<ul> <li>14.7 Maritime transport in bulk according IMO instruments</li> </ul>	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.

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information	
This information is based on our present knowledge. However, this shall not constitute a guarantee any specific product features and shall not establish a legally valid contractual relationship.	for
· Department issuing SDS: Dept. Compliance	
• Date of previous version: 04.02.2021	
· Version number of previous version: 4.01	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulatio Concerning the International Transport of Dangerous Goods by Rail)	ons
ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning	the
International Carriage of Dangerous Goods by Road)	me
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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
• * Data compared to the previous version altered.	
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