

# Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 23.02.2021 Revision: 23.02.2021 Version number 9.02

SECTION 1: Identification of the substance/mixture a undertaking	and of the company/
· 1.1 Product identifier	
· Trade name: <u>Ammonium Sulphate</u>	
<ul> <li>Article number: A3485</li> <li>CAS Number: 7783-20-2</li> <li>EC number: 231-984-1</li> <li>Application of the substance / the mixture Laboratory chemical Biochemistry Molecular biology Chemical analytics</li> </ul>	
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> </ul>	
<ul> <li>Manufacturer/Supplier: AppliChem GmbH</li> <li>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</li> </ul>	isness 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>	
<ul> <li>2.2 Label elements</li> <li>Labelling according to Regulation (EC) No 1272/2008 Void</li> <li>Hazard pictograms Void</li> <li>Signal word Void</li> <li>Hazard statements Void</li> <li>2.3 Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul>	
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## **SECTION 3: Composition/information on ingredients**

- · 3.1 Substances
- · CAS No. Description
- 7783-20-2 Ammonium Sulphate
- Identification number(s)
- EC number: 231-984-1

## **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 eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.
- · After swallowing:
- Rinse out mouth.
- If symptoms persist consult doctor.
- $\cdot$  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.
- 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.

In case of fire, the following can be released: Nitrogen oxides (NOx)

Sulphur oxides (SOx)

Ammonia

- 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.

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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 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: No special requirements.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container sealed.
- $\cdot$  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	6.4 mg/kg
Dermal	Long-term - systemic effects, worker	42.667 mg/kg
	Long term - systemic effects, general population	12.8 mg/kg
Inhalative	Long-term - systemic effects, worker	11.167 mg/m3
	Long-term - systemic effects, general population	1.667 mg/m3
DUES		

## · PNECs

Aquatic compartment - freshwater	0.312 mg/L	
Aquatic compartment - marine water	0.0312 mg/L	
Aquatic compartment - water, intermittent releases	0.53 mg/L	
Aquatic compartment - sediment in freshwater	0.063 mg/kg	
Sewage treatment plant	16.18 mg/L	
Ground	62.6 mg/kg	

• 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.

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Penetration time of glove material	
	und out by the manufacturer of the protective gloves
has to be observed.	of the following meterials are quitable.
For the permanent contact gloves made Nitrile rubber, NBR	of the following materials are suitable.
Recommended thickness of the material: $\geq$	0 11 mm
Value for the permeation: Level $\geq$ 480 min	
As protection from splashes gloves mad	e of the following materials are suitable:
Nitrile rubber, NBR	C C
Recommended thickness of the material: $\geq$	0.11 mm
Value for the permeation: Level $\geq$ 480 min	
Eye/face protection Safety glasses	
Body protection: Protective work clothing	
SECTION 9: Physical and chemica	al properties
9.1 Information on basic physical and ch	
General Information	ennical properties
Physical state	Solid
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	280 °C
Boiling point or initial boiling point and b	
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: Decomposition temperature:	Not determined. Not determined.
• •	
pH Viscosity:	5-6 (5%)
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	Not applicable.
water at 20 °C:	760 g/l
Partition coefficient n-octanol/water (log	
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	1.77 g/cm³
Relative density	Not determined.
Bulk density:	850 kg/m³
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
••	Powder
Form:	neaith
Form: Important information on protection of	
Form: Important information on protection of and environment, and on safety.	Product does not present an explosion bazard
Form: Important information on protection of and environment, and on safety. Explosive properties:	Product does not present an explosion hazard
Form: Important information on protection of and environment, and on safety. Explosive properties: Change in condition	
Form: Important information on protection of and environment, and on safety. Explosive properties: Change in condition Evaporation rate	Not applicable.
Form: Important information on protection of and environment, and on safety. Explosive properties: Change in condition	

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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: Heating.
- **10.3 Possibility of hazardous reactions** A risk of explosions and/or of toxic gas formation exists with the following substances: alkalis
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials:
- alkali salts alkali metals chlorates potassium Sodium hypochlorite nitrites

• 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.

		•	•		
· Compone	nts	Туре	Value	Species	
Oral LD50	) 4250 mg/kg (rat	:)			
· Skin corre	sion/irritation B	acad an av	t etch aldelie	the classification criteria are not met	

• 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.

· 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.

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## · 11.2 Information on other hazards

 $\cdot$  Endocrine disrupting properties Substance is not listed.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

• Type of test Effective concentration Method Assessment

## EC50/48 h 169 mg/l (Aquatic Invertebrata)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential -5.1 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 undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

Water hazard class 1 (German Regulation) (Assessment by list): 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	tion	
<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)		
<sup>·</sup> ADR, ADN, IMDG, IATA <sup>·</sup> Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
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<ul> <li>14.7 Maritime transport in bulk according 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.
- · 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:

 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
 vPvB: very Persistent and very Bioaccumulative
 \* Data compared to the previous version altered.