

# Safety data sheet

## according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 03.11.2021

Version number 6

Revision: 03.11.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier****Trade name:** Sal ammoniac in blocks size 0-5Salmiakstein Größe 0-5**UFI:** DVM8-A0A5-900H-P3D4**1.2 Relevant identified uses of the substance or mixture and uses advised against***No further relevant information available.***Application of the substance / the mixture** *Cleaning agent/ Cleaner***1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:***Felder GmbH**Im Lipperfeld 11**D-46047 Oberhausen**Tel.: +49 (0)208/ 85035-0**Fax.: +49 (0)208/ 26080**http://www.felder.de**e-mail: info@felder.de***Further information obtainable from:***lab**(mo-thu. 8:00 a.m. - 4:00 p.m./ fr. 8:00 a.m. - 1:00 p.m.)**email: mprobst@felder.de***1.4 Emergency telephone number:** *Tel.: +49(0)208/85035-29***EuPCS:** PC-TEC-24

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008****GHS07***Acute Tox. 4 H302 Harmful if swallowed.**Eye Irrit. 2 H319 Causes serious eye irritation.***2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the CLP regulation.***Hazard pictograms****GHS07****Signal word** *Warning***Hazard-determining components of labelling:***ammonium chloride***Hazard statements***H302 Harmful if swallowed.**H319 Causes serious eye irritation.***Precautionary statements***P102 Keep out of reach of children.**P264 Wash thoroughly after handling.**P270 Do not eat, drink or smoke when using this product.**P280 Wear eye protection / face protection.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P337+P313 If eye irritation persists: Get medical advice/attention.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 2)

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(Contd. of page 1)

**Labelling of packages where the contents do not exceed 125 ml**  
**Hazard pictograms**



GHS07

**Signal word** *Warning***Hazard-determining components of labelling:***ammonium chloride***Hazard statements***H302 Harmful if swallowed.***Precautionary statements***P102 Keep out of reach of children.**P264 Wash thoroughly after handling.**P270 Do not eat, drink or smoke when using this product.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** *Not applicable.***vPvB:** *Not applicable.*

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures****Description:** *Mixture: consisting of the following components.***Dangerous components:**

CAS: 12125-02-9 EINECS: 235-186-4 Index number: 017-014-00-8 Reg.nr.: 01-2119487950-27	ammonium chloride	Acute Tox. 4, H302; Eye Irrit. 2, H319	<95%
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**Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

## SECTION 4: First aid measures

**4.1 Description of first aid measures****General information:***Take affected persons out of danger area and lay down.**Take affected persons out into the fresh air.***After inhalation:** *Supply fresh air; consult doctor in case of complaints.***After skin contact:** *Immediately wash with water and soap and rinse thoroughly.***After eye contact:***Rinse opened eye for several minutes under running water.**Protect unharmed eye.**Seek medical treatment.***After swallowing:***Rinse out mouth and then drink plenty of water.**Call for a doctor immediately.***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.**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.***5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*

(Contd. on page 3)

— EU —

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(Contd. of page 2)

**5.3 Advice for firefighters****Protective equipment:** *No special measures required.***SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures***Ensure adequate ventilation**Use respiratory protective device against the effects of fumes/dust/aerosol.***6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.***6.3 Methods and material for containment and cleaning up:***Dispose contaminated material as waste according to item 13.***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***Ensure that suitable extractors are available on processing machines**Keep away from heat and direct sunlight.***Information about fire - and explosion protection:** *No special measures required.***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:** *Store away from foodstuffs.***Further information about storage conditions:***Protect from heat and direct sunlight.**Store in dry conditions.***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:****12125-02-9 ammonium chloride**

WEL (Great Britain)	Short-term value: 20 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup>
OEL (Ireland)	Short-term value: 20 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup>

**Regulatory information***WEL (Great Britain): EH40/2020**OEL (Ireland): 2020 CoP for the Safety, Health and Welfare at Work***recommended monitoring procedures in accordance with 2020/878/EU no. 8.1.2:***12125-02-9 ammonium chloride: OSHA, ID-188 (E) "ammonia"***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.***Appropriate engineering controls:***Ensure adequate ventilation.**Remove the fumes by means of suitable suction devices.***Individual protection measures, such as personal protective equipment****General protective and hygienic measures:***The usual precautionary measures are to be adhered to when handling chemicals.**Keep away from foodstuffs, beverages and feed.**Do not eat, drink, smoke or sniff while working.**Wash hands before breaks and at the end of work.**Avoid contact with the eyes and skin.***Respiratory protection:***Use suitable respiratory protective device in case of insufficient ventilation.*

(Contd. on page 4)

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(Contd. of page 3)

Filter B

Filter P1

**Hand protection**

Protective gloves

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

**Material of gloves**

Nitrile rubber, NBR

*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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.*

*Recommended thickness of the material:  $\geq 0.4$  mm*

**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.*

*The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.*

*Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.*

*Value for the permeation: Level  $\leq 6$*

**As protection from splashes gloves made of the following materials are suitable: Natural rubber, NR**

**Eye/face protection**

Tightly sealed goggles

**Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information**

Colour:	Whitish
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	340 °C
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
pH (50 g/l) at 20 °C	5.0
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water at 20 °C:	376 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 30 °C:	<1.3 hPa
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Bulk density at 20 °C:	500 kg/m <sup>3</sup>
Vapour density	Not applicable.
Particle characteristics	See item 3.

**9.2 Other information**

Appearance:

Form:

**Important information on protection of health and environment, and on safety.**

Explosive properties:

No further relevant information available.

Solid

Product does not present an explosion hazard.

(Contd. on page 5)

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(Contd. of page 4)

Solvent content:	
Organic solvents:	0.0 %
Solids content:	100.0 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard 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 and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Reacts with strong acids and alkali.

Reacts with oxidising agents.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

Ammonia

Hydrogen chloride (HCl)

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

Harmful if swallowed.

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

**ATE (Acute Toxicity Estimates)**

Oral	LD50	1,737 mg/kg (rat)
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**12125-02-9 ammonium chloride**

Oral	LD50	1,650 mg/kg (rat)
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**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Causes serious eye irritation.

**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.

(Contd. on page 6)

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(Contd. of page 5)

**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is 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** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects** No further relevant information available.**Remark:**

Harmful to water fleas

Harmful to algae

**Additional ecological information:****General notes:**

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

06 03 14: solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

HP4: Irritant - skin irritation and eye damage

HP6: Acute Toxicity

plastic box:

15 01 02: plastic packaging

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

**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

**14.4 Packing group**

ADR, IMDG, IATA

Void

**14.5 Environmental hazards:****Marine pollutant:**

No

**14.6 Special precautions for user**

Not applicable.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**UN "Model Regulation":**

Void

(Contd. on page 7)

— EU —



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(Contd. of page 6)

### 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** *None of the ingredients is listed.*

**REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 65*

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

*None of the ingredients is listed.*

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

*None of the ingredients is listed.*

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

*None of the ingredients is listed.*

**Regulation (EC) No 273/2004 on drug precursors**

*None of the ingredients is listed.*

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

*None of the ingredients is listed.*

#### National regulations:

**Information about limitation of use:** *Employment restrictions concerning juveniles must be observed.*

**Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

**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.*

#### Reasons for changes:

08.05.2015: adaption to Regulation 453/2010/EG and 830/2015/EU

09.03.2017: section 8.1, 8.2, 13, adaption to Regulation 2012/18/EU

19.07.2017: section 3

03.09.2019: section 1, 13

03.11.2021: section 1, 8.1, 11, 13, 15, 16

**Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:**

#### Relevant phrases

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

**Contact:** Dr. M. Probst

**Version number of previous version:** 5

#### 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

ELINCS: European List of Notified 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

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

**Safety data sheet SD3120**