

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 5 (replaces version 4) Revision: 23.01.2023

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

1.1 Product identifier

Trade name: C-NH4/1-1 Article number: 827518

· Description: Alyza IQ Cleaning solution

1.2 Relevant identified uses of the substance or mixture and uses advised against:

- · Product category: PC21 Laboratory chemicals
- · Process category: PROC15 Use as laboratory reagent
- · Application of the substance / the preparation: Cleaning of analyzers

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany

Tel. +49 881 183-0

- · Further information obtainable from: E-mail: Info.WTW@xylem.com
- 1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008:



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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:



GHS05

- · Signal word: Danger
- Hazard-determining components of labelling:

Sodium hydroxide

Hazard statements:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Revision: 23.01.2023 Version number 5 (replaces version 4)

Trade name: C-NH4/1-1

(Contd. of page 1)

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· 2.3 Other hazards No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Mixture, consisting of the following components:

Sodium hydroxide

tri-Sodium citrate dihydrate

Dangerous components:

CAS: 1310-73-2 EINECS: 215-185-5

Sodium hydroxide 2 – < 5% Met. Corr.1, H290; Skin Corr. 1A, H314 Index number: 011-002-00-6 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: $0.5 \% \le C < 2 \%$

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

· After inhalation: Supply fresh air or oxygen; call for doctor.

After skin contact:

Take off immediately all contaminated clothing and wash it before reuse.

Call a doctor immediately.

Wash with plenty of water

Take off contaminated clothing.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:

Make victim drink water immediately (2 glasses at most).

Call a doctor immediately.

Do not attempt to neutralize.

Do not induce vomiting (risk of perforation)

- 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:

The product is not flammable. Extinguishing agent to suit environment.

Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture Formation of hazardous gases or vapors is possible.
- 5.3 Advice for firefighters
 - **Protective equipment:**

Wear self-contained respiratory protective device.

Wear chemical protective clothing in the case of heavy toxic load.

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

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 5 (replaces version 4) Revision: 23.01.2023

Trade name: C-NH4/1-1

(Contd. of page 2)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (see section 8).

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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 good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Wear personal protective equipment (see section 8)

· Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: Do not use light alloy receptacles.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store tigthly sealed at temperatures between 15 °C and 25 °C.
- 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· 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.

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

- Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.
- · Recommended Filter type: Combination filter B-P2
- · Hand protection Protective gloves
 - · Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

(Contd. on page 4)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 5 (replaces version 4) Revision: 23.01.2023

Trade name: C-NH4/1-1

(Contd. of page 3)

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.

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitrile rubber, NBR

· Eye/face protection

Safety glasses

Not required.

· Environmental exposure controls

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 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state
 Colour:
 Colourless
 Odour:
 Odourless
 Not determined.

Melting point/freezing point:
 Boiling point or initial boiling point and boiling range
 100 °C

Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.
 Upper: Not determined.
 Flash point: Not applicable.
 Decomposition temperature: Not determined.

· pH at 20 °C 13

· Viscosity:

Kinematic viscosityDynamic:Not determined.

Solubility

water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure at 20 °C:
 Not determined.
 23 hPa

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 1.05 g/cm³
 Not determined.

 Vapour density
 Not determined.

9.2 Other information

· Appearance:

· Form: Liquid

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

• Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

· Change in condition

• Evaporation rate Not determined.

· Information with regard to physical hazard classes

ExplosivesFlammable gasesAerosolsVoidVoid

(Contd. on page 5)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Revision: 23.01.2023 Version number 5 (replaces version 4)

Trade name: C-NH4/1-1

| | | (Contd. of page 4) |
|---|-----------------------------|--------------------|
| · 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 gas | es | |
| in contact with water | Void | |
| · Oxidising liquids | Void | |
| · Oxidising solids | Void | |
| · Organic peroxides | Void | |
| Corrosive to metals | May be corrosive to metals. | |
| 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 Formation of hydrogen possible with metals and alloys (risk of explosion).
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Acids

Metals

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
 - · Acute toxicity

No quantitative toxicity data are available for this product.

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

LD/LC50 values relevant for classification:

1310-73-2 Sodium hydroxide

Oral LD50 2000 mg/kg (Rat)

- Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation Causes serious eye damage.
- 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.
- Additional toxicological information:
 - Acute effects (acute toxicity, irritation and corrosivity):

If ingested, severe burns of the mouth and throat, as well as a danger of the perforation of the oesophagus and the stomach.

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 5 (replaces version 4) Revision: 23.01.2023

Trade name: C-NH4/1-1

(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 Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
 - · 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.

- · Additional ecological information:
 - · General notes:

Not known to be hazardous to water.

Detrimental effect due to shift of pH value.

· Additional ecological information: Not known to be hazardous to water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

- * Uncleaned packaging:
 - Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR/RID, IMDG, IATA UN1824

14.2 UN proper shipping name

· ADR/RID, IMDG, IATA SODIUM HYDROXIDE SOLUTION

- 14.3 Transport hazard class(es)
 - ADR/RID, IMDG, IATA



· Class 8 Corrosive substances.

8

Label

(Contd. on page 7)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 5 (replaces version 4) Revision: 23.01.2023

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Trade name: C-NH4/1-1

(Contd. of page 6)

14.4 Packing group

· ADR/RID, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code):
 EMS Number:
 Segregation groups
 80
 F-A,S-B
 (SGG18) Alkalis

· Stowage Category A

* Segregation Code SG35 Stow "separated from" SGG1-acids

· 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

· ADR/RID

Limited quantities (LQ)Transport categoryTunnel restriction codeE

UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

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: 3
 - 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.

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

SECTION 16: Other information

Relevant phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- · Date of previous version: 13.10.2021
- · Version number of previous version: 4

(Contd. on page 8)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 5 (replaces version 4) Revision: 23.01.2023

Trade name: C-NH4/1-1

(Contd. of page 7)

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 Met. Corr.1: Corrosive to metals – Category 1

Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1

* Data compared to the previous version altered.

EU -



Page 1/6

Revision: 23.01.2023

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 3 (replaces version 2)

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

1.1 Product identifier

Trade name: C-NH4/1-2
 Article number: 827519
 Description: Cleaning solution

1.2 Relevant identified uses of the substance or mixture and uses advised against:

- · Product category: PC21 Laboratory chemicals
- · Process category: PROC15 Use as laboratory reagent
- · Application of the substance / the preparation: Cleaning of analyzers
- 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany

Tel. +49 881 183-0

- · Further information obtainable from: E-mail: Info.WTW@xylem.com
- 1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008: The product is not classified, according to the CLP regulation.

2.2 Label elements:

- · Labelling according to Regulation (EC) No 1272/2008: Void
 - · Hazard pictograms: Void
 - · Signal word: Void
 - · Hazard statements: Void
- Additional information:

EUH210 Safety data sheet available on request.

· 2.3 Other hazards No further relevant information available.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Description:

Mixture, consisting of the following components:

Water, citric acid

Dangerous components: CAS: 77-92-9 citri

EINECS: 201-069-1 Index number: 607-750-00-3

citric acid

Eye Irrit. 2, H319; STOT SE 3, H335

5 – < 10%

Additional information: For the wording of the listed hazard phrases refer to section 16.

EU -

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 2) Revision: 23.01.2023

Trade name: C-NH4/1-2

(Contd. of page 1)

SECTION 4: First aid measures

4.1 Description of first aid measures

· After inhalation: Supply fresh air or oxygen; call for doctor.

After skin contact:

Wash with plenty of water.

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Make victim drink water immediately (2 glasses at most).

Get medical advice/attention if you feel unwell.

- 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: The product is not flammable. Extinguishing agent to suit environment.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 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

No special measurements required when handled properly.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Wash off residuals with water.

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 No special precautions are necessary if used correctly.
 - Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
 - Requirements to be met by storerooms and receptacles: Do not use light alloy receptacles.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Store tigthly sealed at temperatures between 15 °C and 25 °C.
- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 2) Revision: 23.01.2023

Trade name: C-NH4/1-2

(Contd. of page 2)

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:

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

- Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.
 - Recommended filter device for short term use: Combination filter A-P2
- · Hand protection Protective gloves
 - Material of gloves Nitrile rubber, NBR
- · Eye/face protection Safety glasses
- · Environmental exposure controls

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 9: Physical and chemical properties | | |
|---|---|--|
| 9.1 Information on basic physical and chemical properties | | |
| General Information | | |
| · Physical state | Fluid | |
| · Colour: | Colourless | |
| · Odour: | Odourless | |
| Melting point/freezing point: | Undetermined. | |
| Boiling point or initial boiling point and boiling range | 100 °C | |
| [.] Flammability | Product is not flammable. | |
| · Flash point: | Not applicable. | |
| · Ignition temperature: | 1010 °C | |
| · Viscosity: | | |
| Kinematic viscosity | Not determined. | |
| Dynamic: | Not determined. | |
| · Solubility | | |
| water: | Fully miscible. | |
| · Vapour pressure at 20 °C: | 23 hPa | |
| Density and/or relative density | | |
| Density at 20 °C: | 1.05 g/cm³ | |
| 9.2 Other information | | |
| Important information on protection of health and | | |
| environment, and on safety. | | |
| Auto-ignition temperature: | Product is not selfigniting. | |
| Explosive properties: | Product does not present an explosion hazard. | |
| 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 | |

(Contd. on page 4)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 2) Revision: 23.01.2023

Void

Trade name: C-NH4/1-2

(Contd. of page 3)

| 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 | |

SECTION 10: Stability and reactivity

Desensitised explosives

- · 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 Formation of hydrogen possible with metals and alloys (risk of explosion).
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:

Strong oxidizing agents.

Alkalis

Metals

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
 - · Acute toxicity

No quantitative toxicity data are available for this product.

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

LD/LC50 values relevant for classification:

77-92-9 citric acid

Oral LD50 3000 mg/kg (Rat) (RTECS)

Skin corrosion/irritation

Local irritation possible.

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

Serious eye damage/irritation

Irritation possible.

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

- 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.
- 11.2 Information on other hazards
 - Endocrine disrupting properties

None of the ingredients is listed.

EU -

(Contd. on page 5)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 2) Revision: 23.01.2023

Trade name: C-NH4/1-2

(Contd. of page 4)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

77-92-9 citric acid

EC50 120 mg/l, 72 h (Daphnia magna) (IUCLID)

LC50 440 - 760 mg/l, 96 h (Leuciscus idus) (IUCLID)

- 12.2 Persistence and degradability biodegradable
- · 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 Not applicable.
- · 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
 - 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

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

· Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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 | | |
|---|-------------------------|--|
| 14.1 UN number or ID number ADR/RID, ADN, IMDG, IATA | Void | |
| 14.2 UN proper shipping name ADR/RID | Void Void | |
| · ADN, IMDG, IATA | Void | |
| · 14.3 Transport hazard class(es) | | |
| · ADR/RID, ADN, IMDG, IATA · Class | Void | |
| 14.4 Packing group ADR/RID, IMDG, IATA | Void | |
| · 14.5 Environmental hazards: | Not applicable. | |
| · 14.6 Special precautions for user | Not applicable. | |
| · 14.7 Maritime transport in bulk according instruments | to IMO Not applicable. | |
| · UN "Model Regulation": | Void | |

EU —

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Revision: 23.01.2023 Version number 3 (replaces version 2)

Trade name: C-NH4/1-2

(Contd. of page 5)

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.
 - 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

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.

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

SECTION 16: Other information

Relevant phrases

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- Date of previous version: 14.10.2021
- Version number of previous version: 2
- 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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3



Page 1/6

Revision: 23.01.2023

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 3 (replaces version 1)

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

1.1 Product identifier

Trade name: S-NH4/1-0.0
Article number: 827510

· Description: Ammonium standard solution 0 mg/l NH4-N

1.2 Relevant identified uses of the substance or mixture and uses advised against:

- · Product category: PC21 Laboratory chemicals
- · Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Calibration and test equipment

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany

Tel. +49 881 183-0

- · Further information obtainable from: E-mail: Info.WTW@xylem.com
- 1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008: The product is not classified, according to the CLP regulation.

2.2 Label elements:

- · Labelling according to Regulation (EC) No 1272/2008: Void
 - · Hazard pictograms: Void
 - · Signal word: Void
 - · Hazard statements: Void
- Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

· 2.3 Other hazards No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Water (CAS 7732-18-5), sulfuric acid (CAS 7664-93-9, <0.01 %)

· Dangerous components: Void

· 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: No special measures required.
- · After inhalation: Supply fresh air.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 1) Revision: 23.01.2023

Trade name: S-NH4/1-0.0

(Contd. of page 1)

After skin contact:

Wash with plenty of water.

Take off contaminated clothing.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Rinse opened eye for several minutes under running water.

- · After swallowing: 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:

The product is not flammable. Extinguishing agent to suit environment.

Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 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

Wear personal protective equipment (see section 8).

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up:

Soak up or wipe off. Then dispose of it in the drain.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Wash off residuals with water.

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 Wear personal protective equipment (see section 8)
 - Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
 - · 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: none
- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· 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.

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 1) Revision: 23.01.2023

Trade name: S-NH4/1-0.0

(Contd. of page 2)

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

· Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

- · Respiratory protection: Not required.
- · Hand protection Not required.
 - For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitrile rubber, NBR

· Eye/face protection

Safety glasses

Not required.

· Environmental exposure controls Not hazardous for water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical stateColour:ColourlessOdourless

· Odour threshold: Not determined.

Melting point/freezing point:
 Boiling point or initial boiling point and boiling range
 Flammability
 Not applicable.

Flammability
Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.

· pH at 20 °C 3

· Viscosity:

Kinematic viscosityDynamic at 20 °C:Not determined.0.952 mPas

Solubility

water: Fully miscible.
 Partition coefficient n-octanol/water (log value) Not determined.
 Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C:

Relative density

Vapour density

1 g/cm³
Not determined.

Not determined.

Not determined.

9.2 Other information

Appearance:

Form: Fluid

(Contd. on page 4)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 1) Revision: 23.01.2023

Trade name: S-NH4/1-0.0

(Contd. of page 3)

| | (Conta. or pa | |
|--|---|--|
| Important information on protection of health and | | |
| environment, and on safety. | | |
| · Auto-ignition temperature: | Product is not selfigniting. | |
| Explosive properties: | Product does not present an explosion hazard. | |
| · Change in condition | | |
| Evaporation rate | Not determined. | |
| 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 | e 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 No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

No quantitative toxicity data are available for this product.

Based on available data, 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.
- · 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 5)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 1) Revision: 23.01.2023

Trade name: S-NH4/1-0.0

(Contd. of page 4)

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 Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
 - · General notes: Not hazardous for water.
 - · Additional ecological information:
 - General notes: Not hazardous for water.
 - Additional ecological information: Not hazardous for water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

- · Uncleaned packaging:
 - Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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 | | |
|---|-----------------|--|
| 14.1 UN number or ID number ADR/RID, ADN, IMDG, IATA | Void | |
| · 14.2 UN proper shipping name | | |
| ADR/RID | Void Void | |
| ADN, IMDG, IATA | Void | |
| · 14.3 Transport hazard class(es) | | |
| · ADR/RID, ADN, IMDG, IATA | | |
| Class | Void | |
| · 14.4 Packing group | | |
| ADR/RID, IMDG, IATA | Void | |
| 14.5 Environmental hazards: | Not applicable. | |
| 14.6 Special precautions for user | Not applicable. | |
| · 14.7 Maritime transport in bulk according to IMO | | |
| instruments | Not applicable. | |

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Revision: 23.01.2023 Version number 3 (replaces version 1)

Trade name: S-NH4/1-0.0

(Contd. of page 5)

· 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 None of the ingredients is listed.
 - 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.

7664-93-9 sulphuric acid

Regulation (EC) No 273/2004 on drug precursors

7664-93-9 sulphuric acid

3

3

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

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

SECTION 16: Other information

- Date of previous version: 14.10.2021 · Version number of previous version: 1
- · 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative



Page 1/6

Revision: 23.01.2023

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 3 (replaces version 2)

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

1.1 Product identifier

Trade name: S-NH4/1-4.0
Article number: 827512

· Description: Ammonium standard solution 4 mg/l NH4-N

1.2 Relevant identified uses of the substance or mixture and uses advised against:

- · Product category: PC21 Laboratory chemicals
- · Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Calibration solution

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany

Tel. +49 881 183-0

- · Further information obtainable from: E-mail: Info.WTW@xylem.com
- 1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008: The product is not classified, according to the CLP regulation.

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 No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Mixture, consisting of the following components:

Water, ammonium chloride (<0.01 %)

- · Dangerous components: Void
- 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

- · After inhalation: Supply fresh air.
- · After skin contact: Rinse skin with water [or shower].
- · After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 2) Revision: 23.01.2023

Trade name: S-NH4/1-4.0

(Contd. of page 1)

After swallowing:

Rinse out mouth and then drink plenty of water. Get medical advice/attention if you feel unwell.

- * 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: The product is not flammable. Extinguishing agent to suit environment.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 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

No special measurements required when handled properly.

- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Wash off with water.
- · 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 No special precautions are necessary if used correctly.
 - · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
 - 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: Store tigthly sealed at temperatures between 15 °C and 25 °C.
- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 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:

Avoid contact with the eyes and skin.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

- Respiratory protection: Not required.
- · Hand protection Protective gloves recommended for frequent or long-term skin contact.
 - Material of gloves Nitrile rubber, NBR

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 2) Revision: 23.01.2023

Trade name: S-NH4/1-4.0

(Contd. of page 2)

- · Eye/face protection Safety glasses
- · Environmental exposure controls Not hazardous for water.

SECTION 9: Physical and chemical properties

| 9.1 Information on basic phy | sical and chemica | properties |
|------------------------------|-------------------|------------|
|------------------------------|-------------------|------------|

General Information

· Physical state Fluid · Colour: Colourless · Odour: Odourless · Melting point/freezing point: 0°C · Boiling point or initial boiling point and boiling range 100 °C

· Flammability Product is not flammable.

· Flash point: Not applicable.

· pH at 20 °C 6 - 7

· Viscosity:

· Kinematic viscosity Not determined. · Dynamic: Not determined.

· Solubility

water: Fully miscible.

· Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C: 1 g/cm³

9.2 Other information

Explosives

Important information on protection of health and

environment, and on safety.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Void

Void

Information with regard to physical hazard classes

· Flammable gases · 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.

(Contd. on page 4)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 2) Revision: 23.01.2023

Trade name: S-NH4/1-4.0

(Contd. of page 3)

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Do not heat.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.

SECTION 11: Toxicological information

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

· Acute toxicity

No quantitative toxicity data are available for this product.

Based on available data, 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.
- · 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.
- 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 Not applicable.
- · 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
 - · General notes: Not hazardous for water.
 - Additional ecological information:
 - General notes: Not hazardous for water.
 - · Additional ecological information: Not hazardous for water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

- · Uncleaned packaging:
 - Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

(Contd. on page 5)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 3 (replaces version 2) Revision: 23.01.2023

Trade name: S-NH4/1-4.0

(Contd. of page 4)

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

| SECTION 14: Transport information | | |
|--|-----------------|--|
| 14.1 UN number or ID number ADR/RID, ADN, IMDG, IATA | Void | |
| 14.2 UN proper shipping name ADR/RID, ADN, IMDG, IATA | Void | |
| 14.3 Transport hazard class(es) | | |
| · ADR/RID, ADN, IMDG, IATA · Class | Void | |
| · 14.4 Packing group | | |
| · ADR/RID, IMDG, IATA | Void | |
| 14.5 Environmental hazards: | Not applicable. | |
| 14.6 Special precautions for user | Not applicable. | |
| 14.7 Maritime transport in bulk according to IMO | | |
| instruments | Not applicable. | |
| · 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 None of the ingredients is listed.
 - 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.

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

SECTION 16: Other information

- Date of previous version: 14.10.2021Version number of previous version: 2
- 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

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Revision: 23.01.2023 Version number 3 (replaces version 2)

Trade name: S-NH4/1-4.0

(Contd. of page 5)

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) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EU -