

according to Commission Regulation (EU) 2020/878 as amended

25% colution

| Ammonia, 25% solution | | | | | |
|-----------------------|---|---|----------------------------|--|--|
| Creat | ion date 04th November | 2024 | | | |
| Revisi | ion date | Version | 5.0 | | |
| SECT | ION 1: Identification of the substance | e/mixture and of the company/undertaking | I | | |
| 1.1. | Product identifier | Ammonia, 25% solution | | | |
| | Substance / mixture | substance | | | |
| | Chemical name | ammonia% | | | |
| | CAS number | 1336-21-6 | | | |
| | Index number | 007-001-01-2 | | | |
| | EC (EINECS) number | 215-647-6 | | | |
| 1.2. | Relevant identified uses of the subs | stance or mixture and uses advised against | | | |
| | Substance's intended use | | | | |
| | Laboratory chemical substances. Manufacture of substances | | | | |
| | | | | | |
| | Substance uses advised against | | | | |
| | Substance uses advised against The product should not be used in ways | | | | |
| 1.3. | - | s other than those referred in Section 1. | | | |
| 1.3. | The product should not be used in ways | s other than those referred in Section 1. | | | |
| 1.3. | The product should not be used in ways Details of the supplier of the safety | s other than those referred in Section 1. | | | |
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| 1.3. | The product should not be used in ways Details of the supplier of the safety Supplier Name or trade name | s other than those referred in Section 1. • data sheet Protolab Stanisław Staniuk | We create unique solutions | | |
| 1.3. | The product should not be used in ways Details of the supplier of the safety Supplier | s other than those referred in Section 1. 7 data sheet Protolab Stanisław Staniuk Owocowa 4-8, Słupsk, 76-20 | We create unique solutions | | |
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is classified as dangerous.

Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400 Most serious adverse effects on human health and the environment May cause respiratory irritation. Causes severe skin burns and eye damage. Very toxic to aquatic life.

2.2. Label elements



Signal word Danger **Dangerous substance** ammonia% (Index: 007-001-01-2; CAS: 1336-21-6) **Hazard statements** H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.



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| Animolia, 23 % solution | | | | |
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| Precautionary statements | | | | |

| P102 | Keep out of reach of children. |
|----------------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| 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. |
| P310 | Immediately call a doctor. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier. |

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|--|--------------------------------------|------------------------|--|------|
| Index: 007-001-01-2 CAS: 1336-21-6 EC: 215-647-6 | substance main component ammonia% | | Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=1) Specific concentration limit: STOT SE 3, H335: $C \ge 5 \%$ | 1 |

Notes

1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. Rinse skin with water or shower.



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If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

4.2. Most important symptoms and effects, both acute and delayed

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If inhaled

Inhaling vapours can cause corrosion of the breathing system. May cause respiratory irritation.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

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Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed.

Storage class

8B - Non-combustible corrosive substances

Specific end use(s) not available

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

none

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | liquid |
|--|--------------------|
| Colour | data not available |
| Odour | data not available |
| Melting point/freezing point | -57.5 °C |
| Boiling point or initial boiling point and boiling range | 37.7 °C |
| Flammability | Flammable gas. |
| Lower and upper explosion limit | |
| bottom | 15.4 % |
| upper | 33.6 % |
| Flash point | data not available |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| рН | 11-12 (undiluted) |
| Kinematic viscosity | data not available |
| Solubility in water | in 20°C - soluable |
| Solubility in fats | data not available |
| Partition coefficient n-octanol/water (log value) | log Pow: -1.38 |



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| Vapour press | ure | data not available | | |
| Density and/ | or relative density | data not available | | |
| Relative vapo | our density | data not available | | |
| Particle chara | octeristics | data not available | | |
| Form | | liquid | | |
| 9.2. Other inform | nation | | | |
| Evaporation (| ate | data not available | | |

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials Acids.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the substance. Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.

Acute toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

| Ammonia, 25% sol | Ammonia, 25% solution | | | |
|-------------------|-----------------------|---------------|---------|--------------------------|
| Route of exposure | Result | Exposure time | Species | Source |
| Dermal | Highly irritating | | Rabbit | (29% roztwór) (RTECS) |

Serious eye damage/irritation

Causes severe skin burns and eye damage.

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|-----------------------|--|---------------|---------|
| Route of exposure | Result | Exposure time | Species |
| Eye | Highly irritating, Serious eye damage | | Rabbit |

Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.



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Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life.

- **12.2. Persistence and degradability** No data available for the substance.
- **12.3. Bioaccumulative potential** No data available for the substance.
- **12.4. Mobility in soil** No data available for the substance.
- 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100. 12.7. Other adverse effects Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.



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| SECTIO | n date | | |
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| | ON 14: Transport information | | |
| 19.I. | - | | |
| | UN 2672 | | |
| 14.2. | UN proper shipping name | | |
| | AMMONIA SOLUTION | | |
| 14.3. | • • • • • • | | |
| | 8 Corrosive substances | | |
| 14.4. | | | |
| | III | | |
| 14.5. | Environmental hazards | | |
| 146 | not relevant | | |
| 14.6. | Special precautions for user Reference in the Sections 4 to 8. | | |
| 14.7. | Maritime transport in bulk according | a to IMO instruments | |
| · | not relevant | | |
| | Additional information | | |
| | Hazard identification No. | 80 | |
| | UN number | 2672 | |
| | Classification code | C5 | |
| | Safety signs | 8+hazardous for the envir | onmont |
| | | | > |
| | Road transport - ADR | | |
| | Special provisions | 543 | |
| | Limited quantities | 5 L | |
| | Excepted quantities | E1 | |
| | Packaging | | |
| | Packing instructions | P001, IBC03, LP01, R001 | |
| | Mixed packing provisions | MP19 | |
| | Portable tanks and bulk contain | | |
| | Guidelines | T7 | |
| | Special provisions ADR tank | TP1 | |
| | Tank code | L4BN | |
| | Vehicles for tank carriage | AT | |
| | Transport category | 3 | |
| | Tunnel restriction code | (E) | |
| | Special provision for | (-) | |
| | packages | V12 | |



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| Railway transport - RID | | | |
| Special provisions | 543 | | |
| Excepted quantities | E1 | | |
| Packaging | | | |
| Packing instructions | P001, IBC03, LP01, R001 | | |
| Mixed packing provisions | MP19 | | |
| Portable tanks and bulk containers | | | |
| Guidelines | Τ7 | | |
| Special provisions | TP1 | | |
| RID Tanks | | | |
| Tank code | L4BN | | |
| Transport category | 0 | | |
| Special provision for | | | |
| packages | W12 | | |
| Air transport - ICAO/IATA | | | |
| Packaging instructions for limited amour | nt Y841 | | |
| Packaging instructions passenger | 852 | | |
| Cargo packaging instructions | 856 | | |
| Marine transport - IMDG | | | |
| EmS (emergency plan) | F-A, S-B | | |
| | , = = | | |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

| A list of standard risk phras | ses used in the safety data sheet |
|-------------------------------|--|
| H314 | Causes severe skin burns and eye damage. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| Guidelines for safe handling | g used in the safety data sheet |
| P102 | Keep out of reach of children. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| 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. |
| P310 | Immediately call a doctor. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier. |
| | |

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.



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| Kev to abbreviat | tions and acronyms used in th | e safetv data sheet | | | |
| ADR | | | riage of dangerous goods by road | | |
| Aquatic Acute | _ | aquatic environment | | | |
| BCF | Bioconcentration F | actor | | | |
| CAS | Chemical Abstracts | s Service | | | |
| CLP | Regulation (EC) No substance and mix | | tion, labelling and packaging of | | |
| EC | Identification code | for each substance listed | I in EINECS | | |
| EINECS | European Inventor | y of Existing Commercial | Chemical Substances | | |
| EmS | Emergency plan | | | | |
| EU | European Union | | | | |
| EuPCS | European Product | Categorisation System | | | |
| ΙΑΤΑ | International Air T | ransport Association | | | |
| IBC | International Code Dangerous Chemic | | d Equipment of Ships Carrying | | |
| ICAO | International Civil | Aviation Organization | | | |
| IMDG | International Marit | ime Dangerous Goods | | | |
| IMO | International Marit | ime Organization | | | |
| INCI | International Nom | enclature of Cosmetic Ing | redients | | |
| ISO | International Orga | nization for Standardization | on | | |
| IUPAC | International Union | n of Pure and Applied Che | emistry | | |
| log Kow | Octanol-water par | tition coefficient | | | |
| OEL | Occupational Expo | sure Limits | | | |
| PBT | Persistent, bioaccumulative and toxic | | | | |
| PMT | Persistent, mobile | and toxic | | | |
| ppm | Parts per million | | | | |
| REACH | Registration, Evalu | ation, Authorisation and | Restriction of Chemicals | | |
| RID | Agreement on the | transport of dangerous g | oods by rail | | |
| Skin Corr. | Skin corrosion | | | | |
| STOT SE | Specific target org | an toxicity - single exposi | ure | | |
| UN number | Four-figure identifi Model Regulations | cation number of the sub | stance or article taken from the UN | | |
| UVCB | Substances of unk biological material | | tion, complex reaction products or | | |
| VOC | Volatile organic co | mpounds | | | |
| | · · · · · | | | | |

vPvM Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Very persistent and very bioaccumulative

Very persistent and very mobile

Recommended restrictions of use

not available

vPvB

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

Changes made in section 10.

More information

Classification procedure - calculation method.

Statement



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The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.