Dr. Grogg Chemie AG
Gümligentalstrasse 83
CH-3066 Stettlen-Deisswil

Telefon 031 932 11 66
info@grogg-chemie.ch
www.grogg-chemie.ch

COVER SHEET FOR THE SAFETY DATA SHEET

Date of creation of the cover page: 25.11.2026
Cover page version: 1.0
Applies to the safety data sheet in the appendix: 03.07.2026, Version 2.0
Number of pages, including the cover page: 24

Item number: G040

Trade name: Ammonia solution 25% pure

Supplier:
Dr. Grogg Chemie AG
Gümligentalstrasse 83
CH-3066 Stettlen-Deisswil
info@grogg-chemie.ch
Tel. +41 31 932 11 66

Emergency number:
24-hour emergency number: 145
Help with poisoning. Tox Info Suisse provides free medical advice round the clock in cases of poisoning or suspected poisoning.

Tox Info Suisse
Freiestrasse 16
8032 Zürich
Tel. +41 (0) 44 251 51 51
www.toxinfo.ch

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended

AMMONIUM HYDROXIDE 24.5% CHEM. PURE

Version 2.0 Print Date 25.11.2026

Revision date / valid from 03.07.2026

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

1.1. Product identifier

Trade name	:	AMMONIUM HYDROXIDE 24.5% CHEM. PURE
Substance name	:	ammonia
Index-No.	:	007-001-01-2
CAS-No.	:	1336-21-6
EC-No.	:	215-647-6
EU REACH-Reg. No.	:	01-2119488876-14-xxxx

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

Use of the Substance/Mixture	:	Coatings and paints, thinners, paint removers, Heat transfer fluids, Polishes and wax blends, Washing and cleaning products (including solvent based products)
Uses advised against	:	At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company	:	Brenntag Schweizerhall AG Elsässerstrasse 231 CH 4002 Basel
Telephone	:	+41 (0)58 344 80 00
Telefax	:	+41 (0)58 344 82 08
E-mail address	:	doku@brenntag.ch
Responsible/issuing person	:	Abteilung Produktsicherheit

1.4. Emergency telephone number

Emergency telephone number	:	Swiss Toxicological Information Centre CH-8032 ZÜRICH Tel.: +41 (0) 44 251 51 51 National emergency call: 145

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	**Hazard category**	**Target Organs**	**Hazard statements**
Acute toxicity (Inhalation)	Category 4	---	H332
Skin corrosion	Sub-category 1B	---	H314
Serious eye damage	Category 1	---	H318
Specific target organ toxicity - single exposure	Category 3	Respiratory system	H335
Long-term (chronic) aquatic hazard	Category 3	---	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9/10 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements :

H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention :

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P260	Do not breathe gas/vapours.
P273	Avoid release to the environment.

Response :

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340	IF INHALED: Remove person to fresh air

and keep comfortable for breathing.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

• ammonia

2.3. Other hazards

The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical nature : Aqueous solution

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
ammonia			
Index-No. : 007-001-01-2 CAS-No. : 1336-21-6 EC-No. : 215-647-6 EU REACH-Reg. No. : 01-2119488876-14-xxxx	>= 22 - < 25	Acute Tox.4 Inhalation Skin Corr.1B Eye Dam.1 STOT SE3 Aquatic Acute1 Aquatic Chronic2 M-Factor (Acute aquatic toxicity): 1 specific concentration limit STOT SE 3; H335 >= 5 % EUH071 >= 25 % Acute toxicity estimate Acute inhalation toxicity (gas):	H332 H314 H318 H335 H400 H411 EUH071

	3285 ppm
	Note B

Remarks : The REACH registration number for the anhydrous ammonia (CAS 7664-41-7) covers ammonia in aqueous solutions (CAS 1336-21-6).

For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the Notes mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled : Avoid inhalation of vapour or mist. In case of accident by inhalation: remove casualty to fresh air and keep at rest. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Wash off immediately with plenty of water. Call a physician immediately.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.;

Effects : Extremely corrosive and destructive to tissue. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. See Section 11 for more detailed information on health effects and symptoms.
Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. Causes severe burns.

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

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.
Unsuitable extinguishing media	:	High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Incomplete combustion may form toxic pyrolysis products.
Hazardous combustion products	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The formation of caustic fumes is possible. Nitrogen oxides (NOx)

5.3. Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.Wear appropriate body protection (full protective suit)
Specific extinguishing methods	:	Control smoke with water spray.
Further advice	:	Cool closed containers exposed to fire with water spray.Heating will cause a pressure rise - with risk of bursting.Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Keep people away from and upwind of spill/leak. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

6.2. Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up	:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.
Further information	:	Treat recovered material as described in the section "Disposal

considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	:	Keep container tightly closed. Open drum carefully as content may be under pressure. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.
Hygiene measures	:	Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep in an area equipped with alkali resistant flooring. Store in original container.
Advice on protection against fire and explosion	:	The product is not flammable. Normal measures for preventive fire protection.
Further information on storage conditions	:	Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from direct sunlight.
Advice on common storage	:	Keep away from food, drink and animal feeding stuffs. Do not store near acids. Incompatible with: Strong oxidizing agents
German storage class	:	8B Non-combustible corrosive substances
Suitable packaging materials	:	Polyethylene, Polypropylene, Stainless steel
Unsuitable packaging materials	:	Aluminium, Zinc, copper

7.3. Specific end use(s)

Specific use(s)	:	Identified use: See table in front of appendix for a complete overview of identified uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	ammonia	CAS-No. 1336-21-6

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL Workers, Long-term systemic effects, Inhalation	:	47,6 mg/m3
DNEL Workers, Long-term - local effects, Inhalation	:	14 mg/m3
DNEL Workers, Acute - systemic effects, Inhalation	:	47,6 mg/m3
DNEL Workers, Acute - local effects, Inhalation	:	36 mg/m3
DNEL Workers, Long-term systemic effects, Skin contact	:	6,8 mg/kg bw/day
DNEL Workers, Acute - systemic effects, Skin contact	:	6,8 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	:	0,0013 mg/l
Marine water	:	0,0013 mg/l
Intermittent releases	:	0,0083 mg/l
Soil	:	0,0221 mg/kg dry weight (d.w.)

Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
50 ppm, 36 mg/m3
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
20 ppm, 14 mg/m3
Indicative

Switzerland. OELs. Limit Values at the Workplace, as per SUVA, as amended, Short Term Exposure Limit (STEL):
40 ppm, 28 mg/m3

Switzerland. OELs. Limit Values at the Workplace, as per SUVA, as amended
If in compliance with the OEL and BEL values, then there should be no risk of reproductive damage.

Switzerland. OELs. Limit Values at the Workplace, as per SUVA, as amended, Time Weighted Average (TWA):
20 ppm, 14 mg/m3

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice	:	In case of brief exposure or low pollution use breathing filter apparatus. Use a properly fitted, air-purifying respirator or air complying with an approved standard if a risk assessment indicates this is necessary. Respirator with a full face mask Recommended Filter type:K Equipment should conform to EN 14387

Hand protection

Advice	:	Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.
Material	:	butyl-rubber
Break through time	:	>= 8 h
Glove thickness	:	0,5 mm

Material	:	Fluorinated rubber
Break through time	:	>= 8 h
Glove thickness	:	0,4 mm

Eye protection

Advice	:	Safety glasses with side-shields Equipment should conform to ISO 16321-1.

Skin and body protection

Protecting Clothes	:	alkali resistant protective clothing Chemical resistant apron Protective clothing against the effects of liquid chemicals (EN 13034).
Protective Footwear	:	Protective footwear according to ISO 20345.

Environmental exposure controls

General advice	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	:	liquid
Physical state	:	liquid
Colour	:	colourless, light yellow
Odour	:	ammoniacal
Odour Threshold	:	5 - 25 ppm
Freezing point/range	:	-44 °C 22% solution
Boiling point/boiling range	:	44 °C 22% solution
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	27 %(V) Ammonia
Lower explosion limit / Lower flammability limit	:	16 %(V) Ammonia 16 %(V) ammonia gas
Flash point	:	No data available
Auto-ignition temperature	:	651 °C ammonia gas
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	12 - 13 Concentration: 100 %
Viscosity		
Viscosity, dynamic	:	No data available

Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Dispersion Stability	:	No data available
Vapour pressure	:	358 hPa (20 °C) 22% solution
Relative density	:	No data available
Density	:	0,90 g/cm3 25% solution
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		
Assessment	:	This substance/ mixture does not contain nanoforms (according to REACH Regulation)
Particle size	:	Not applicable

9.2 Other information

Explosives	:	Product is not explosive.
Oxidizing properties	:	not oxidising

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : No decomposition if used as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Corrodes copper and its alloys. Exothermic reaction with strong

acids.

10.4. Conditions to avoid

Conditions to avoid : Heat

10.5. Incompatible materials

Materials to avoid : Bases, Acids, Aluminium, Zinc, Copper, Strong oxidizing agents, hypochlorites

10.6. Hazardous decomposition products

Hazardous decomposition products : ammonia

SECTION 11: Toxicological information

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

Data for the product		
Acute toxicity		
Oral		
		Not classified based on the calculation method according to CLP regulation.
Inhalation		
Acute toxicity estimate	:	13140 - 14932 ppm (4 h; gas) (Calculation method)Classified based on the calculation method according to CLP regulation.
Dermal		
		Study scientifically not justified.
Irritation		
Skin		
Result	:	Classified based on the calculation method according to CLP regulation.
Eyes		
Result	:	Classified based on the calculation method according to CLP regulation.
Sensitisation		
Result	:	Not classified based on the calculation method according to CLP regulation.
CMR effects		
CMR Properties		

Carcinogenicity	:	Not classified based on the calculation method according to CLP regulation.
Mutagenicity	:	Not classified based on the calculation method according to CLP regulation.
Teratogenicity	:	Not classified based on the calculation method according to CLP regulation.
Reproductive toxicity	:	Not classified based on the calculation method according to CLP regulation.

Specific Target Organ Toxicity

Single exposure

Inhalation	:	May cause respiratory irritation.

Repeated exposure

Remarks	:	Not classified based on the calculation method according to CLP regulation.

Other toxic properties

Repeated dose toxicity

No data available

Aspiration hazard

Not applicable,

Component: ammonia CAS-No. 1336-21-6

Acute toxicity

Oral

Study scientifically not justified.

Inhalation

LC50	:	3285 ppm (Rat; 4 h; gas) Corrosive to the respiratory tract.

Dermal

Study scientifically not justified.

Irritation

Skin

Result	:	corrosive effects (Rabbit) (OECD Test Guideline 404)

Eyes

Result	:	Causes serious eye damage. (Rabbit)

Sensitisation

Result	:	not sensitizing

CMR effects

Carcinogenicity

NOAEL	:	256 mg/kg bw/day (negative, Rat, male; Test substance: Ammonium sulphate)(Oral; 104 weeks)(OECD Test Guideline 453)Information given is based on data obtained from similar substances.

CMR Properties

Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

Genotoxicity in vitro

Result	:	negative (Ames test; Salmonella typhimurium; Test substance: ammonia; with and without metabolic activation) (OECD Test Guideline 471)

Genotoxicity in vivo

Result	:	negative (In vivo micronucleus test; Mouse, male; Bone marrow) (Test substance: ammonium chloride; intraperitoneal;) (OECD Test Guideline 474)

Reproductive toxicity

NOAEL Parent	:	1.500 mg/kg bw/day
NOAEL F1	:	1.500 mg/kg bw/day
NOAEL Fertility	:	387 mg/kg bw/day (Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test; Rat, male and female)(Oral)(OECD Test Guideline 422)Animal testing did not show any effects on fertility.Information given is based on data obtained from similar substances.

Specific Target Organ Toxicity		
Single exposure		
Inhalation	:	Target Organs: Respiratory systemMay cause respiratory irritation.
Repeated exposure		
Remarks	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Other toxic properties		
Aspiration hazard		
		Not applicable,

11.2. Information on other hazards

Data for the product		
Endocrine disrupting properties		
Assessment Endocrine Disrupting Properties	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component:	ammonia	CAS-No. 1336-21-6
Endocrine disrupting properties		
Assessment Endocrine Disrupting Properties	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Component:	ammonia	CAS-No. 1336-21-6

Acute toxicity		
Fish		
LC50	:	0,89 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h)
Toxicity to daphnia and other aquatic invertebrates		
LC50	:	101 mg/l (Daphnia magna (Water flea); 48 h)
algae		
EC50	:	3283,2 mg/l (algae; 72 h)
Bacteria		
	:	Study scientifically unjustified.

Chronic toxicity		
Fish		
NOEC	:	0,0135 mg/l (Fish; 60 d)
Aquatic invertebrates		
NOEC		0,961 mg/l (Daphnia magna (Water flea); 21 d)
M-Factor		
M-Factor (Acute Aquat. Tox.)	:	1

12.2. Persistence and degradability

Component:	**ammonia**	**CAS-No. 1336-21-6**
Persistence and degradability		
Persistence		
Result	:	(Related to: Hydrolysis) Not hydrolysable.

Highly soluble in water

Biodegradability		
Result	:	Readily biodegradable.Can be oxidized by microorganisms to nitrate but can be also reduced to nitrogen.

12.3. Bioaccumulative potential

Component:	ammonia	CAS-No. 1336-21-6
Bioaccumulation		
Result	:	Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	ammonia	CAS-No. 1336-21-6
Mobility		
Water	:	Good soluble in water.
Soil	:	Mobile in soils

12.5. Results of PBT and vPvB assessment

Data for the product		
Results of PBT and vPvB assessment		
Result	:	The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Component:	ammonia	CAS-No. 1336-21-6
Results of PBT and vPvB assessment		
Result	:	The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

12.6. Endocrine disrupting properties

Data for the product		
Assessment Endocrine Disrupting	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article

Properties	57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component:	**ammonia**	**CAS-No. 1336-21-6**

Assessment Endocrine Disrupting Properties	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Component:	**ammonia**	**CAS-No. 1336-21-6**

Additional ecological information

Result	:	Harmful effects to aquatic organisms due to pH-shift. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.
Contaminated packaging	:	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
European Waste Catalogue Number	:	No waste code can be defined for this product in accordance with the Ordinance on the Movement of Waste (VeVA), as the intended use dictates the assignment. The waste code is established in consultation with a regional waste disposer, such as: Brenntag Schweizerhall AG Lohnmatte 1 4573 Lohn-Ammannsegg Switzerland Phone: +41 58 344 84 00 infolohn@brenntag.ch

SECTION 14: Transport information

14.1. UN number or ID number

2672

14.2. UN proper shipping name

ADR	:	AMMONIA SOLUTION
RID	:	AMMONIA SOLUTION
IMDG	:	AMMONIA SOLUTION

14.3. Transport hazard class(es)

ADR-Class	:	8
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code)		8; C5; 80; (E)
RID-Class	:	8
(Labels; Classification Code; Hazard Identification Number)		8; C5; 80
IMDG-Class	:	8
(Labels; EmS)		8; F-A, S-B

14.4. Packaging group

ADR	:	III
RID	:	III
IMDG	:	III

14.5. Environmental hazards

Environmentally hazardous according to ADR	:	no
Environmentally hazardous according to RID	:	no
Marine Pollutant according to IMDG-Code	:	yes

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Data for the product

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed

Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended		Point Nos.: , 75; Listed
CPID	:	641577-41
Threshold quantity MAO	:	20.000 kg (2015 determined by law SR814.012 Ann. 1 ch. 4)
Ordinance protection of air	:	LRV (CH): chapter 62 - class 3
Other regulations	:	Article 4 paragraph 1bis, Article 4 paragraph 4 of the Youth Employment Protection Ordinance (SR 822.115); articles 5 and 6 of the EAER Ordinance on Hazardous Work for Young People (SR 822.115.2): Young people undergoing basic vocational training may only work with this product (substance/preparation) if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not undergoing any basic vocational training are not permitted to work with this product (substance/preparation). Young people with a Federal vocational education and training (VET) Certificate or a Federal VET Diploma may carry out hazardous work with this product (substance/preparation) within the profession they have learned. Male and female employees who are under 18 years old are classed as young people. Article 4 paragraph 1bis, Article 4 paragraph 4 of the Youth Employment Protection Ordinance (SR 822.115); articles 5 and 6 of the EAER Ordinance on Hazardous Work for Young People (SR 822.115.2): Young people undergoing basic vocational training may only work with this product (substance/preparation) if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not undergoing any basic vocational training are not permitted to work with this product (substance/preparation). Young people with a Federal vocational education and training (VET) Certificate or a Federal VET Diploma may carry out hazardous work with this product (substance/preparation) within the profession they have learned. Male and female employees who are under 18 years old are classed as young people. The product belongs to group 2 according to the Swiss Chemicals Ordinance (ChemO 813.11). The product belongs to group 2 according to the Swiss Chemicals Ordinance (ChemO 813.11).

Component: ammonia CAS-No. 1336-21-6

EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended	:	; The substance/mixture does not fall under this legislation.
EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended	:	Point Nos.: , 3; Listed Point Nos.: , 75; Listed
EU. Restricted Substances: Annex III, Regulation 1223/2009/EC on Cosmetic Products, as amended	:	Maximum concentration in ready for use preparation: 6 %; See the text of the regulation for applicable exceptions or provisions.

Notification status ammonia:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	215-647-6
ENCS (JP)	YES	(1)-314
IECSC	YES	
INSQ	YES	
ISHL (JP)	YES	(1)-314
KECI (KR)	YES	KE-01688
KECI (KR)	YES	97-1-184
NZIOC	YES	HSR001516
NZIOC	YES	HSR001517
NZIOC	YES	HSR001526
NZIOC	YES	HSR001563
ONT INV	YES	
PHARM (JP)	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	2814.20

TH INV	YES	55-1-01485
TSCA	YES	
VN INVL	YES	

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of the Notes referred to under section 3.

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.

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals

IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SPM	Synthetic Polymer Microparticles
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

Further information

Key literature references : Supplier information and data from the "Database of registered

and sources for data		substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.