

## Ammonia solution (30-33%)

## Safety Data Sheet

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

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 9/11/2018 Revision date: 7/11/2023 Supersedes version of: 6/27/2023 Version: 3.0

1.1. Product identifier	substance/mixture and of the company/undertaking
Product form	: Mixture
Trade name	: Ammonia solution (30-33%)
EC Index-No.	: 007-001-01-2
EC-No.	: 215-647-6
CAS-No.	: 1336-21-6
REACH registration No	: 01-2119488876-14-XXXX
Product code	: NC-0901
Type of product	: Synthesis Reagent
Formula	: NH4OH
Synonyms	: Ammonium hydroxide, Ammonia water, Ammonia aqueous
Product group	: End product
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Industrial use,Laboratory chemical
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Laboratory chemicals Substance manufacture
Function or use category	: Laboratory chemicals
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	afety data sheet
emp Biotech GmbH Robert-Rössle-Str. 10 13125 Berlin - Deutschland T +49 (0)30 94 89 22 01 (Monday-Friday, info@empbiotech.com - www.empbiotech.	9:00 am-5:00 pm) - F +49 (0)30 94 89 32 01 <u>com</u>
1.4. Emergency telephone number	•
Emergency number	: Giftnotruf Berlin +49 30 30686700 (Beratung in Deutsch), 24 Stunden, 7 Tage/Woche; International: INFOTRAC +1-352-323-3500 (Phone) or in the US 800-535-5053 (toll-free), 24 hours/day, 7 days/week
SECTION 2: Hazards identificati	on
2.1. Classification of the substanc	

#### Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin Corr 1B H314

Skin Corr. 1B	H314
Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

Full text of hazard classes, H- and EUH-statements: see section 16

## Adverse physicochemical, human health and environmental effects

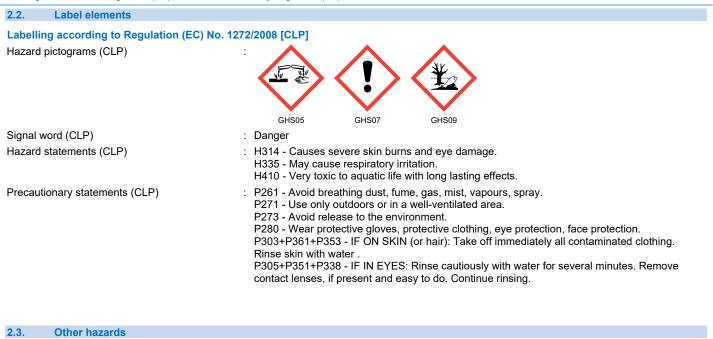
No additional information available

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Other hazards which do not result in classification

: This substance / mixture does not contain any components of 0.1% or higher that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ammonia solution (30-33%)	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6 (EC Index-No.) 007-001-01-2 (REACH-no) 01-2119488876-14-XXXX	100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Specific concentration limits:			
Name	Product identifier	Specific cond	entration limits
Ammonia solution (30-33%)	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6 (EC Index-No.) 007-001-01-2 (REACH-no) 01-2119488876-14-XXXX	(5 ≤ C < 100) STOT SE 3, H335	

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. Consult a doctor. Show this safety data sheet to the doctor in attendance.
First-aid measures after inhalation	: Move person to fresh air and ensure comfortable breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately cal a POISON CENTER/doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Immediately call a POISON CENTER/doctor. Remove contact lenses, if possible. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. No attempts at neutralization.
NC-0901	EN (English) 2/8



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects	: The most important known symptoms and effects are described on the label (see 2.2) and / or in section 11.
4.3. Indication of any immediate medica	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Making extinguishing agents environment-friendly.
5.2. Special hazards arising from the su	ibstance or mixture
Fire hazard	: Non- combustible.
Reactivity in case of fire	: Ambient fire may liberate hazardous vapours.
Hazardous decomposition products in case of fire	: Nitrous gases (NOx).
5.3. Advice for firefighters	
Firefighting instructions	: Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Protection during firefighting	: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
SECTION 6: Accidental release mea	Isures
6.1. Personal precautions, protective ed	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: For personal protection see section 8.
Emergency procedures	: Do not breathe vapours, mist, gas, spray. Avoid substance contact. Ensure adequate ventilation, observe emergency procedures, consult an expert. Evacuate area.
6.1.2. For emergency responders	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Do not allow to enter drains or water courses. A	void release to the environment.
6.3. Methods and material for containm	ent and cleaning up
Methods for cleaning up	: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
6.4. Reference to other sections	
Information on exposure controls/personal prote	ective equipment and on Instructions for disposal can be found in sections 8 and 13.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	<ul> <li>Avoid contact with skin and eyes. Always open containers slowly to allow any excess pressure to vent.</li> <li>For precautions see section 2.2.</li> </ul>
Hygiene measures	<ul> <li>Apply preventive skin protection. Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	: Keep container tightly closed in a well-ventilated, dry place. Store in cool place. May develop pressure. Refrigerate before opening. Handle and open container with care.
Storage temperature	: 2 – 8 °C
Storage area	: Storage class (TRGS 510): See section 15.1.2.
7.3. Specific end use(s)	

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection			
8.1. Control par	rameters		
Ammonia solution	(30-33%) (1336-21-6)		
Germany	AGW (OEL TWA) [1]	14 mg/m <sup>3</sup>	
Germany	AGW (OEL TWA) [2]	20 ppm Remark: Skin resorptive: There is no reason to fear a risk of damage to the developing embryo or foetus when AGW and BGW are adhered to.	

Source: DFG, EU

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

. Full contact-Material: butyl-rubber

Minimum layer thickness: 0,7 mm

Break through time: 480 min. Splash contact-material: Nitrile rubber Minimum layer thickness: 0,2 mm

Break through time: 38 min

#### Eye protection:

Wear closed safety glasses. EN 166

#### Skin and body protection:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Flame retardant antistatic protective clothing

#### **Respiratory protection:**

Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK.



#### Environmental exposure controls:

Do not let product enter drains. Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

#### Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and	· · ·
9.1. Information on basic	physical and chemical properties
Physical state	: Liquid
Appearance	: Clear.
Colour	: Colourless.
Ddour	: No data available
Ddour threshold	: No data available
эΗ	: 12 at 20 °C.



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -69 °C
Freezing point	: No data available
Boiling point	: ≈ 24.7 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Non flammable.
Vapour pressure	: 837 hPa at 20 °C.
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble at 20 °C
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 108 – 240 g/m³
Lower explosion limit	: 15.4 vol %
Upper explosion limit	: 33.6 vol %
0.0 Others information	

Other information 9.2.

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Stable under the specified storage conditions.
10.3. Possibility of hazardous reactions
Violent reactions possible with: The generally known reaction partners of water.
10.4. Conditions to avoid
Direct sunlight. Heat. Open flame. Sparks.
10.5. Incompatible materials
Aluminium. Lead. Nickel. Silver. Iron, Copper. Zinc. Several metals.
10.6. Hazardous decomposition products
In the event of fire: see section 5.

SECTION 11: Toxicological infor	mation
11.1. Information on toxicological ef	fects
Acute toxicity	: Not classified
Ammonia solution (30-33%) (1336-21-6)	
LD50 oral rat	350 mg/kg Journal of Industrial Hygiene and Toxicology. Vol. 23, Pg. 259, 1941.
Skin corrosion/irritation	: Causes severe skin burns.
	pH: 12 at 20 °C.
Serious eye damage/irritation	: Mixture causes serious eye damage. Risk of blindness!
	pH: 12 at 20 °C.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
NC-0901	EN (English)



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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878         STOT-single exposure       : Mixture may cause respiratory irritations. Cough, Shortness of breath Possible damages: damage of respiratory tract         STOT-repeated exposure       : Not classified         Aspiration hazard       : Not classified         Potential adverse human health effects and symptoms       : Cough, Shortness of breath, Bronchitis, Gastric pain, Bloody vomiting, Na Shock, Unconsciousness. Other dangerous properties can not be exclude Handle in accordance with good industrial hygiene and safety practice.         Other information       : To the best of our knowledge, the chemical, physical, and toxicological proben to water         SECTION 12: Ecological information       : Very toxic to aquatic life.         12.1.       Toxicity         Ecolagy - water       : Very toxic to aquatic life.         12.3.       Bioaccumulative potential         No additional information available       11         12.4.       Mobility in soil         No additional information available       12.5.         12.5.       Results of PBT and vPvB assessment         Component       This substance/mixture contains no components considered to be either proioaccumulation and lord, 0.1% or higher.         12.6.       Other adverse effects       : Biological effects: Harmful effect due to pH shift. Forms toxic and corrosive mixtures with water even if diluted. Discharge into th	1.
Aspiration hazard       : Not classified         Potential adverse human health effects and symptoms       : Cough, Shortness of breath, Bronchitis, Gastric pain, Bloody vomiting, Na Shock, Unconsciousness. Other dangerous properties can not be exclude Handle in accordance with good industrial hygiene and safety practice.         Other information       : To the best of our knowledge, the chemical, physical, and toxicological problem thoroughly investigated.         SECTION 12: Ecological information       : Very toxic to aquatic life.         12.1. Toxicity       : Very toxic to aquatic life.         12.2. Persistence and degradability       No additional information available         12.3. Bioaccumulative potential       No additional information available         12.4. Mobility in soil       No additional information available         12.5. Results of PBT and vPvB assessment       Component         Ammonia solution (30-33%) (1336-21-6)       This substance/mixture contains no components considered to be either proioaccumulative and toxic (PBT), or very persistent and very bioaccumulation of 0.1% or higher.         12.6. Other adverse effects       : Biological effects: Harmful effect due to pH shift. Forms toxic and corrosive mixtures with water even if diluted.	1.
Potential adverse human health effects and symptoms       : Cough, Shortness of breath, Bronchitis, Gastric pain, Bloody vomiting, Na Shock, Unconsciousness. Other dangerous properties can not be exclude Handle in accordance with good industrial hygiene and safety practice.         Other information       : To the best of our knowledge, the chemical, physical, and toxicological probeen thoroughly investigated.         SECTION 12: Ecological information       : To the best of our knowledge, the chemical, physical, and toxicological probeen thoroughly investigated.         SECTION 12: Ecological information       : Very toxic to aquatic life.         12.1. Toxicity       : Very toxic to aquatic life.         12.2. Persistence and degradability       No additional information available         12.3. Bioaccumulative potential       No additional information available         12.4. Mobility in soil       No additional information available         12.5. Results of PBT and vPvB assessment       Component         Ammonia solution (30-33%) (1336-21-6)       This substance/mixture contains no components considered to be either probioaccumulative and toxic (PBT), or very persistent and very bioaccumulatior of 0.1% or higher.         12.6. Other adverse effects       : Biological effects: Harmful effect due to pH shift. Forms toxic and corrosive mixtures with water even if diluted.	1.
symptoms       Shock, Unconsciousness. Other dangerous properties can not be exclude         Other information       : To the best of our knowledge, the chemical, physical, and toxicological problem thoroughly investigated.         SECTION 12: Ecological information       :         12.1.       Toxicity         Ecology - water       : Very toxic to aquatic life.         12.2.       Persistence and degradability         No additional information available       :         12.3.       Bioaccumulative potential         No additional information available       :         12.4.       Mobility in soil         No additional information available       :         12.5.       Results of PBT and vPvB assessment         Component       Ammonia solution (30-33%) (1336-21-6)         This substance/mixture contains no components considered to be either pp bioaccumulative and toxic (PBT), or very persistent and very bioaccumulation of 0.1% or higher.         12.6.       Other adverse effects         Component       :         Ammonia solution (30-33%) (1336-21-6)       :         Biological effects:       :         Harmful effect due to pH shift.       Forms toxic and corrosive mixtures with water even if diluted.	1.
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Ecology - water       : Very toxic to aquatic life.         12.2. Persistence and degradability       No additional information available         12.3. Bioaccumulative potential       No additional information available         12.4. Mobility in soil       No additional information available         12.5. Results of PBT and vPvB assessment       Image: Component of the substance/mixture contains no components considered to be either probioaccumulative and toxic (PBT), or very persistent and very bioaccumulative of 0.1% or higher.         12.6. Other adverse effects       : Biological effects: Harmful effect due to pH shift. Forms toxic and corrosive mixtures with water even if diluted.	
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No additional information available <b>12.4.</b> Mobility in soil         No additional information available <b>12.5.</b> Results of PBT and vPvB assessment <b>Component</b> Ammonia solution (30-33%) (1336-21-6)         This substance/mixture contains no components considered to be either period bioaccumulative and toxic (PBT), or very persistent and very bioaccumulation of 0.1% or higher. <b>12.6.</b> Other adverse effects         Other adverse effects         : Biological effects:         Harmful effect due to pH shift.         Forms toxic and corrosive mixtures with water even if diluted.	
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Harmful effect due to pH shift. Forms toxic and corrosive mixtures with water even if diluted.	
Ammonium hydroxide       : Toxicity to fish: LC50 - Fish: 0,44 mg/l - 96 h Remarks: (External MSDS) Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia magna (Water flea): 25,4 mg/l - 48 h Remarks: (ECOTOX Database)	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods       : Product residues are to be disposed of in compliance with national and regidispose. Keep chemicals in original containers. Not with other waste mix. are to be treated according to the product. Pay attention to the waste policity.	
Product/Packaging disposal recommendations : Contaminated packaging to be disposed as unused product.	Incleaned containers
Ecology - waste materials : Avoid release to the environment.	Incleaned containers

### **SECTION 14: Transport information** In accordance with ADR / IMDG / IATA

ADR	IMDG	ΙΑΤΑ	
14.1. UN number			
2672	2672	2672	
14.2. UN proper shipping name			
AMMONIA SOLUTION	AMMONIA SOLUTION	Ammonia solution	
14.3. Transport hazard class(es)			
8	8	8	



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	ΙΑΤΑ
B		B
14.4. Packing group	· · · · · · · · · · · · · · · · · · ·	
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
	No supplementary information available	
14.6. Special precautions for user		
- Overland transport		

Tunnel restriction code (ADR)	: E
- Transport by sea	
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B

## - Air transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

<b>SECTION 15: Regulatory information</b>	n	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
15.1.1. EU-Regulations		
Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances		
Seveso Information	: Seveso III: Directive 2012/18/EU of the European : ENVIRONMENTAL HAZARDS Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	
15.1.2. National regulations		
Germany		
Regulatory reference	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)	
Storage class (LGK, TRGS 510)	: LGK 8B - Non-combustible corrosive substances	
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	
15.2. Chemical safety assessment		
For this product a chemical safety assessment was not carried out.		
SECTION 16: Other information		

Data sources Other information	<ul> <li>REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.</li> <li>None.</li> </ul>	d
Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
NC 0001		7/0



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

MSDS (Reach Anhang II) EMP

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.