Printing date 28.04.202	23	Version number 1	Revision: 27.04.2023
SECTION 1: Ia	lentification of the s	ubstance/mixture and of the	company/undertaking
· 1.1 Product identif	ier		
· Trade name: Amm	onia solution 5 %		
• Article number: 16			
• 1.2 Relevant identi No further relevant		<mark>ce or mixture and uses advised ago</mark> Chemical.	ninst
 1.3 Details of the s Manufacturer/Sup Möller Chemie Gm Bürgerkamp 1 D-48565 Steinfurt Tel.: 02551/9340-0 Fax: 02551/9340-0 	bH & Co. KG	a sheet	
	on obtainable from: Pro	duct safety department	
· 1.4 Emergency tele	ephone number:	ergency service - Tel.: +49 (0) 613	1/19240
SECTION 2: H	azards identification	n	
	of the substance or mixt ording to Regulation (E		
GHS05 d	corrosion		
Met. Corr.1 H29	0 May be corrosive to m	netals.	
	4 Causes severe skin bu		
Eye Dam. 1 H31	8 Causes serious eye da	mage.	
GHS07			
STOT SE 3 H33	5 May cause respiratory	vivwitation	
· 2.2 Label elements · Labelling accordin	ng to Regulation (EC) N sified and labelled acco		
	>		
GHS05 GHS07			
• Signal word Dange	er		
• Hazard statements			
H290 May be corro H314 Causes sever	e skin burns and eye dar	nage.	
H335 May cause re	espiratory irritation.	C	
• Precautionary stat P101		ded, have product container or lab	ol at hand
P102	Keep out of reach of ch		сі иї пипи.
P103	Read carefully and follo	ow all instructions.	· / 1 //·
P303+P361+P353	' IF ON SKIN (or hair): water [or shower].	Take off immediately all contami	nated clothing. Rinse skin with
P305+P351+P338		itiously with water for several min	nutes. Remove contact lenses, if
	present and easy to do.	Commue ruising.	(Contd. on page 2)

Printing date 28.04.2023

Version number 1

Revision: 27.04.2023

Trade name: Ammonia solution 5 %

	(Contd. of page 1)
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

· Results of PBT and vPvB assessment

· PBT:

The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).

· vPvB:

The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

≥ 5 % CAS No.: 1336-21-6 aqueous ammonia solution EC No.: 215-647-6

· 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: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Rinse out mouth and then drink plenty of water.

- 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: CO2, powder or water spray. Fight larger fires with water spray.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Ammonia (NH3)
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.

(Contd. on page 3)

EU

Printing date 28.04.2023

Version number 1

Revision: 27.04.2023

Trade name: Ammonia solution 5 %

(Contd. of page 2)

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).
- Use neutralising agent.
- 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 Avoid contact with eyes and skin.

· Information about fire - and explosion protection: Usual preventive fire protection measures.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- · Requirements to be met by storerooms and receptacles: Store in the original container
- · Information about storage in one common storage facility: Store away from acids.
- Further information about storage conditions: Keep container tightly sealed.
- · 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
- Respiratory protection: Suitable respiratory protective device recommended.
- · Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

EU

Printing date 28.04.2023

Version number 1

Revision: 27.04.2023

(Contd. of page 3)

EU

Trade name: Ammonia solution 5 %

· Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical p	roperties
· General Information	•
· Physical state	Fluid
· Colour:	Colourless
· Odour:	ammonia
· Odour threshold:	Not determined.
• Melting point/freezing point:	Undetermined.
• Boiling point or initial boiling point and boiling	Shuclermineu.
	ca. 100 °C
range · Flammability	
	Not applicable.
· Lower and upper explosion limit	N-4 d-4-min - d
· Lower:	Not determined.
Upper:	Not determined.
Flash point:	not applicable
• Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	$0.979 \ g/cm^3$
· Relative density	Not determined.
· Vapour density	Not determined.
x v	
• 9.2 Other information	
· Appearance:	
· Form:	Fluid
Important information on protection of health an	d
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· <i>VOC (EC)</i>	0.00 %
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classe	25
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
	Void Void
· Gases under pressure	
· Flammable liquids	Void Void
Flammable solids	Void Void
• Self-reactive substances and mixtures	Void
	(Contd. on page 5)

Printing date 28.04.2023

Version number 1

Revision: 27.04.2023

Trade name: Ammonia solution 5 %

		(Contd. of page 4)
· 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	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: Evolution of gaseous ammonia on heating.
- · 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 hazardous decomposition products if stored and handled as prescribed/indicated become.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- 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** May cause respiratory irritation.
- · 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
- *PBT*: The product is not considered to be persistent, bioaccumulating nor toxic (*PBT*).
- vPvB: The product is not considered to be persistent or very bioaccumulative (vPvB).
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

(Contd. on page 6)

FΠ

Printing date 28.04.2023

Version number 1

Revision: 27.04.2023

Trade name: Ammonia solution 5 %

(Contd. of page 5)

- · 12.7 Other adverse effects • Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Disposal according to local regulations.

- · Uncleaned packaging:
- *Recommendation: Disposal must be made according to official regulations.*
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number		
· ADR, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	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 The material is not included.
- 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.

(Contd. on page 7)

Printing date 28.04.2023

Version number 1

Revision: 27.04.2023

Trade name: Ammonia solution 5 %

(Contd. of page 6)

• 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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

· Contact: Mrs. Steyer

• Abbreviations and acronyms:

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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals – Category 1 Skin Corr. 1B: Skin corrosion/irritation – Category 1 Stor SE 3: Specific target organ toxicity (single exposure) – Category 3