



Registered Off.: 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India) Corporate Off.: 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India) Works: Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India) Telephone: 0091-11-23646422 E-mail: teopharm@gmail.com

Telephone : 0091 - 11 - 23646422 E-Website : www.technopharmchem.com

AMMONIA SOLUTION MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product form : Mixture CAS-No. : 1336-21-6 Product code : 29275, 29277

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

1.2.1. Relevant identified uses

Industrial/professional use spec : Industrial

For professional use only

Use of the substance/mixture : Laboratory Reagent

1.2.2. Uses advised against

No additional information available

1.3. Details of the manufacturer of the safety data sheet

Techno Pharmchem Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, India T +91 11 23646422 info@technopharmchem.com

1.4. Emergency telephone number

Emergency number: +91 11 23646422 (9:30am - 5.30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302

Category 4

Skin corrosion/irritation, H314

Category 1B

Specific target organ H335

toxicity — Single exposure, Category 3, Respiratory tract irritation

Hazardous to the aquatic H400

environment — Acute Hazard, Category 1



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Full text of H statements: see section 16

Full text of classification categories and H statements: see section 16

Classification according to directive 67/548/EEC or 1999/45/EC

Xn; R20/21/22

C: R34

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to regulation (EC) No. 1272/2008 [CLP] Signal word (CLP) Danger

Hazard statements (CLP) H302-Harmful if swallowed

H314-Corrosive

H335 - May cause respiratory irritation.

H400 - Toxic to aquatic life

Precautionary statements (CLP) P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye

protection/face protection.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 - IF INHALED: Remove person to fresh air

and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P391 - Collect spillage.

2.3. Other hazards

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3 2 Mixtures

	U.L. IVIIACUICS			
	Name	Product identifier	%	Classification according to
				Regulation (EC) No.
				1272/2008 [CLP]
	Water	(CAS-No.7732-18-5)	75	Not classified
ſ	Ammonia	(CAS-No.1336-21-6)	25	Not classified





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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for

breathing. Immediately call a doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse

skin with water/shower. Immediately call a doctor.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue

rinsing. Immediately call a doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately

call a doctor.

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

Symptoms/injuries : Corrosive

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after ingestion : Harmful if swallowed.

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

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon

dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special Hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable

protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

6.2. Environmental precautions

Toxic to aquatic life





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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable

container. Soak up spills with inert solids, such as clay

or diatomaceous earth as soon as possible.

6.4. Reference to other sections

No additional information available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Do not breath dust/fume/gas/mis/vapors/spray. Hygiene measures : Wash hands, forearms and face thoroughly after

handling.

Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed.

Store in a dry place. Store in a well-ventillated place

7.3. Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear appropriate mask

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear Colorless
Odour : Ammonia odor
Odour threshold : No data available

pH : 11.7

Relative evaporation rate (butyl acetate=1): No data available

Melting Point : -60°C

Freezing point : No data available

Boiling point : 38-100

Flash point : No data available





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Auto-ignition temperature : 6510°C

Decomposition temperature : No data available Flammability (Solid,gas) : No data available Vapour pressure : 153 hPa at 20°C

Relative vapour density at 20°C : 1.21

Relative density : No data available

Density : 0.9 g/cm³

Solubility : Water: Infinitely soluble

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 : No data available

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No additional information available

10.2. Chemical Stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Open flame. Heat. Overheating. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Skin corrosion/irritation : Corrosive pH :11.7

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 11./





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Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified Aspiration hazard : Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology – water : 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

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/packaging disposal : Dispose of contents/container to hazardous or recommendations : special waste collection point, in accordance with

local, regional, national and/or international regulation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - 2672 IMDG: - 2672 IATA: - 2672

14.2 UN Proper shipping name

ADR/RID : Ammonia Solution IMDG : Ammonia Solution IATA : Ammonia Solution





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14.3 Transport Hazard class(es)

ADR/RID: - 8 IMDG: - 8 IATA: - 8

14.4 Packaging group

ADR/RID: - III IMDG: - III IATA: - III

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA: No

14.6 Special precautions for user

No data available

SECTION 15: REGULATORY INFORMATION

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

Ensure all local, regional, national and/or international regulations are observed.

15.2 Chemical safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: OTHER INFORMATION

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

H302 Harmful if swallowed

H314 Corrosive

H335 May cause respiratory irritation.

H400 Toxic to aquatic life