

**AMMONIA SOLUTION 25% LR** 

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Product Code : 11860

1. Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Trade name	: AMMONIA SOLUTION 25% LR	
Product code	: 11860	
Identification of the product	: Ammonia solution	
CAS No	: 1336-21-6	
.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	Identified uses : Reagent for analysis, Chemical production	
.3. Details of the supplier of the safety data sheet		
Company identification		
	Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)	
	Tel: +91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442.	
	Email : info@molychem.net	
	Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat	
	Textile Co., Kulgaon, Badlapur (E), DistThane-421 503.	
1.4. Emergency telephone number		
Emergency number	: +91 22 4066 8111 (10:00am - 6:00 pm).	
<ul> <li>2. Hazards identification -DSD</li> <li>2.1. Classification of the substance or mixture Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 Skin corrosion (Sub-category 1B), H314 Serious eye damage (Category 1), H318 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 2), H411</li> <li>2.2. Label elements Labelling EC 67/548 or EC 1999/45 Symbol(s) : C : Corrosive N : Dangerous for the environment</li> </ul>		
<b>R</b> Phrase(s) :	Courses human	
R34 :	Causes burns.	
R50 :	Very toxic to aquatic organisms.	
S Phrase(s) :		
S1/2 :	Keep locked up and out of reach of children.	

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S7 :	Keep container tightly closed.
S26 :	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 :	Wear suitable protective clothing, gloves and eye/face
	protection.
S45 :	In case of accident or if you feel unwell, seek medical advice
	immediately (show the label when possible).
S61 :	Avoid release to the environment. Refer to special
	instructions/Safety data sheets.
Labelling Regulation EC 1272/2	-
Hazard pictograms	
Signal words :	Danger
Hazard statements :	
H314 :	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects
Precautionary statements	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P271	Use only outdoors or in a well-ventilated area.
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.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do.
	Continue rinsing.
Supplemental Hazard statements	none
2.3. Other hazards	This substance/mixture contains no components considered to
	be either persistent, bioaccumulative and toxic (PBT), or very
	persistent and very bioaccumulative (vPvB) at levels of 0.1%
	or higher.
3. Composition/information on ingre	edients
3.2 Mixtures Component	
Formula : H <sub>3</sub> N	



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Molecular weight: 17.03 g/molCAS-No.: 7664-41-7

#### 4. First aid measures

#### 4.1. Description of first aid measures

#### General advice

First aiders need to protect themselves.

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3. Indication of any immediate medical attention and special treatment needed** No data available

# **5. Fire-fighting measures**

# **5.1. Extinguishing media**

# Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given

# 5.2. Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)

Not combustible.

Ammonia solution itself is not flammable, but can form an ignitable ammonia/air-mixture by outgassing.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of : nitrogen oxides

# **5.3.** Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

# 5.4 Further information

Cool closed containers exposed to fire with water spray. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### 6.2 Environmental precautions Do not empty into drains.

# 6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.Observe possible material restrictions (see sections 7 and 10).Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® OH<sup>-</sup>, Merck Art. No. 101596). Dispose of properly. Clean up affected area.

**6.4 Reference to other sections** For disposal see section 13.

# 7. Handling and storage

# 7.1. Precautions for safe handling

# Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities Storage conditions

No metal or light-weight-metal containers. Tightly closed.

Storage class

Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

7.3. Specific end use(s)

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

- 8. Exposure controls/personal protection
- 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure. **Respiratory protection** : Wear approved mask. **Hand protection** : Wear protective gloves.

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Skin protection : Wear suitable protect	ive clothing.
Skin protection : Wear suitable protect Eye protection : Chemical goggles or f	rive clothing. Face shield.
Skin protection : Wear suitable protect	rive clothing. Face shield.
Skin protection : Wear suitable protect Eye protection : Chemical goggles or f	rive clothing. Face shield.

. .

9.1. Information on basic physical and	d chemical properties
a) Physical state	liquid
b) Color	colorless
c) Odor	stinging
d) Melting	No data available
point/freezing point	
e) Initial boiling	37.7 °C at 1.013 hPa
point and boiling range	
f) Flammability (solid, gas)	No data available
g) Upper/lower	Upper explosion limit: 33.6%(V)
flammability or	Lower explosion limit: 15.4%(V)
explosive limits	
h) Flash point	No data available
i) Autoignition temperature	No data available
j) Decomposition temperature	No data available
k) pH	at 20 °C strongly alkaline
l) Viscosity	Viscosity, kinematic: No data available
	Viscosity, dynamic: No data available
m) Water solubility	at 20 °C soluble
n) Partition coefficient: n-octanol/water	Not applicable for inorganic substances
o) Vapor pressure	483 hPa at 20 °C
p) Density	0.91 g/cm3 at 20 °C
Relative density	No data available
q) Relative vapor density	No data available
r) Particle characteristics	No data available
s) Explosive properties	No data available
t) Oxidizing properties	none
9.2. Other information	
No data available	



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<u>10. Stability and reactivity</u>			
10.1. Reactivity			
No data available			
10.2. Chemical stability			
Ammonia solution itself is not flammable, but can form an ignitable ammonia/air-mixture by			
outgassing.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal conditions of use.			
10.4. Conditions to avoid			
0	Heating.		
<b>10.5. Incompatible materials</b>			
	Zinc, Copper, metal alloys, various metals		
10.6. Hazardous decomposition prod	lucts		
In the event of fire: see section 5			
<b><u>11. Toxicological information</u></b>			
11.1. Information on toxicological ef			
Acute toxicity	: Oral: Harmful if swallowed.		
ATE CLP (oral)	500 mg/kg bodyweight		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
	pH: 11.7		
Serious eye damage/irritation	: Serious eye damage, category 1, implicit		
	pH: 11.7		
Respiratory or skin sensitisation			
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		
12 Ecological information			
<b><u>12. Ecological information</u></b> <b>12.1</b> Torigity			
12.1. Toxicity	· Voru toxic to equatic life		
Ecology - general	: Very toxic to aquatic life.		
Ecology – water	: Very toxic to aquatic life		
<b>12.2. Persistence - degradability</b>	· Daridly degradable		
Persistence and degradability	: Rapidly degradable		
<b>12.3. Bioaccumulative potential</b>			
No data available			



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12.4 Mability in soil		
<b>12.4 Mobility in soil</b> No data available		
12.5. Results of PBT and vPvB assess	mont	
		an nonsistant
This substance/mixture contains no components considered to be either persistent,		
bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of		
0.1% or higher.		
<b>12.6 Endocrine disrupting properties</b> No data available		
12.7 Other adverse effects		
No additional information availab	le	
13. Disposal considerations		
<b>13.1.</b> Waste treatment methods		
Regional waste regulation	: Disposal must be done ac	cording to official regulations.
Waste treatment methods	: Dispose of contents/conta	iner in accordance with
	licensed collector's sortin	g instructions.
Sewage disposal recommendation	is : Disposal must be done ac	cording to official regulations.
Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or		
	special waste collect	ion point, in accordance with
	local, regional, natio	nal and/or international
	regulation. Disposal	must be done according to
	official regulations.	
Additional information	: Do not re-use empty	containers.
<b>14. Transport information</b>		
<b>14.1.</b> UN number		
ADR/RID: 2672	IMDG: 2672	IATA: 2672
<b>14.2.</b> UN proper shipping name		
ADR/RID:	AMMONIA SOLUTION	
IMDG:	AMMONIA SOLUTION	
IATA:	Ammonia solution	
<b>14.3.</b> 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: yes	IMDG Marine pollutant: yes	IATA: no
14.6 Special precautions for user	1	
Tunnel restriction code : (E)		

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Further information : No data a	available
15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006	
National legislation	

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : ENVIRONMENTAL HAZARDS

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

# 16. Other information

Abbreviations and acronyms :

PBT : persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

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