

AMMONIA SOLUTION 25% AR

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Product Code : 21400

1. Identification of the substand	. Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier		
Trade name	: AMMONIA SOLUTION 25% AR	
Product code	: 21400	
Identification of the produc CAS No	: 1336-21-6	
I.2. Relevant identified uses of Identified uses	the substance or mixture and uses advised against	
	: Reagent for analysis, Chemical production	
	. Details of the supplier of the safety data sheet	
Company identification	: MOLYCHEM	
	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 num		
Emergency number	: +91 22 4066 8111 (10:00am - 6:00 pm).	
Skin corrosion (Sub-category Serious eye damage (Categor Short-term (acute) aquatic ha Long-term (chronic) aquatic 2.2. Label elements Labelling EC 67/548 or EC Symbol(s) : C :	 Code(s), Regulation (EC) No 1272/2008 (1B), H314 (ry 1), H318 (zard (Category 1), H400 (hazard (Category 2), H411 1999/45 Corrosive 	
N :	Dangerous for the environment	
R Phrase(s) :		
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 ₃ 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

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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⁻, 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.

VERSION : 03 DATE OF ISSUE : 31-01-2022 SUPERSEDES : 02 Page 5 of 9 protective clothing. es or face shield. drink or smoke.
protective clothing. es or face shield.
es or face shield.
: No data available.
nd chemical properties
liquid
colorless
stinging
No data available
37.7 °C at 1.013 hPa
No data available
Upper explosion limit: 33.6%(V) Lower explosion limit: 15.4%(V)
No data available
No data available

No data available

at 20 °C strongly alkaline

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

- j) Decomposition temperature
- k) pH
- l) Viscosity
- m) Water solubilityn) Partition coefficient:
- n-octanol/water o) Vapor pressure p) Density
- q) Relative density
- r) Particle characteristics
- s) Explosive properties
- t) Oxidizing properties
- 9.2. Other information

No data available

at 20 °C soluble Not applicable for inorganic substances 483 hPa at 20 °C 0.91 g/cm3 at 20 °C No data available No data available No data available No data available No data available

none



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10. Stability and reactivity	
10.1. Reactivity	
No data available	
10.2. Chemical stability	
Ammonia solution itself is not fla	ammable, but can form an ignitable ammonia/air-mixture by
outgassing.	-
10.3. Possibility of hazardous reaction	ons
No dangerous reactions known u	nder normal conditions of use.
10.4. Conditions to avoid	
Heating.	
10.5. Incompatible materials	
	Zinc, Copper, metal alloys, various metals
10.6. Hazardous decomposition proc	lucts
In the event of fire: see section 5	
<u>11. Toxicological information</u>	a
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.
Somious and domage/imitation	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	
STOT-repeated exposure	
Aspiration hazard	: Not classified
1	
12. Ecological information	
12.1. Toxicity	
Ecology - general	: Very toxic to aquatic life.
Ecology – water	: Very toxic to aquatic life
12.2. Persistence - degradability	
Persistence and degradability	: Rapidly degradable
12.3. Bioaccumulative potential	
No data available	



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12.4 Mobility in soil		
No data available		
12.5. Results of PBT and vPvB asso		
	s no components considered to be eith	-
	T), or very persistent and very bioaccu	umulative (vPvB) at levels of
0.1% or higher.		
12.6 Endocrine disrupting propert	ies	
No data available		
12.7 Other adverse effects		
No additional information availa	able	
13. Disposal considerations		
13.1. Waste treatment methods		
Regional waste regulation	: Disposal must be done ac	cording to official regulations.
Waste treatment methods	: Dispose of contents/conta	
	licensed collector's sortin	
Sewage disposal recommendati		cording to official regulations.
0 1	ommendations : Dispose of contents/o	
		ion point, in accordance with
	1	nal and/or international
		must be done according to
	official regulations.	8
Additional information	: Do not re-use empty	containers.
<u>14. Transport information</u>		
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	
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: yes	IMDG Marine pollutant: yes	IATA: no
14.6 Special precautions for user		
Tunnel restriction code : (E)	

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Further information : No c	data available
15. Regulatory information	
15.1. Safety, health and environment	al regulations/legislation specific for the substance or mixture mplies with the requirements of Regulation (EC) No. 1907/2006

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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