#### **OM SHREE GANESHYA NAMAH**



#### CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

## **AMMONIA SOLUTION AR ABT 25%**

#### 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Trade name	: AMMONIA SOLUTION AR ABT 25%
Product code	: SM0050900500
Identification of the product	: Ammonia solution CAS No :1336-21-6 EC No :215-647-6 Annex No :007-001-01-2
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
Use	: Industrial. For professional use only.
1.3. Details of the supplier of the s	afety data sheet
Company identification	SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95 Email U: info@uwcham.com/cara@uwcham.com
1.4. Emergency telephone number	Email ID: info@suvchem.com/care@suvchem.com
Phone no.	: + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

#### 2.1. Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45

Classification : C; R34 N; R50

#### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards	: Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314
Environmental hazards	: Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400

#### 2.2. Label elements

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#### 2. Hazards identification -DSD (continued)

#### Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s)	: C : Corrosive N : Dangerous for the environment
R Phrase(s)	: R34 : Causes burns. R50 : Very toxic to aquatic organisms.
S Phrase(s)	<ul> <li>S1/2 : Keep locked up and out of reach of children.</li> <li>S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.</li> <li>S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).</li> <li>S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.</li> </ul>
Contains	: Ammonia solution
Labelling Regulation EC 1272/20	<u>008 (CLP)</u>
Hazard pictograms	
Signal words	: Danger
Hazard statements	: H302 : Harmful if swallowed
Hazaru Statements	H314 : Causes severe skin burns and eye damage.
Precautionary statements	H335 : May cause respiratory irritation. H400 : Very toxic to aquatic life.
General	: P102: Keep out of reach of children.
	P103: Read label before use.
Prevention	P101: If medical advice is needed, have product container or label at hand.
Flevendon	: P280: Wear protective gloves, protective clothing, eye protection, face protection.
	P260: Do not breathe dust, fume, gas, mist, vapours, spray. P273: Avoid release to the environment.
Response	: P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
	P391: Collect spillage. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.



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2.	Hazards identification -DSD (continued)		
	Storage	: P405: Store locked up.	
	Disposal considerations	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
	Contains	: Ammonia solution	
	2.3. Other hazards		
	Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.	

3. Composition/inform	Composition/information on ingredients						
Substance / Preparat	ion	CA EC An	monia solutio \S No :1336-2 ; No :215-647 nex No :007-( bstance.	1-6 -6			
Substance name		Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Ammonia solution	:	25-50 %	1336-21-6	215-647-6	007-001-01-2		C; R34 N; R50 
							Exin Corr. 1B H314 Eye Dam 1 _ H318 Aquatic Acute 1 _ H400

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

4.1. Description of first aid measu	ures	
Inhalation	: Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.	
Skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor.	
Eye contact	: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.	
Ingestion	: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms relating to use	: Causes severe skin burns and eye damage. Causes serious eye damage.	
4.3. Indication of any immediate medical attention and special treatment needed		



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## 4. First aid measures (continued)

## General information

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### Fire-fighting measures 5.1. Extinguishing media Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media : Do not use a heavy water stream. Surrounding fires : Use water spray or fog for cooling exposed containers. 5.2. Special hazards arising from the substance or mixture Hazardous combustion products : Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours. 5.3. Advice for fire-fighters Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection. : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to **Special procedures** enter environment.

#### 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.	
For non-emergency personnel	: Evacuate unnecessary personnel.	
6.2. Environmental precautions		
Environmental precautions	<ul> <li>Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.</li> </ul>	
6.3. Methods and material for conta	<u>ainment and cleaning up</u>	
Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	
6.4. Reference to other sections		



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#### 6. Accidental release measures (continued)

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

#### 7.1. Precautions for safe handling

Handling	: Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray.			
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.			
7.2. Conditions for safe storage, including any incompatibilities				
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.			
Storage regulation	: Comply with applicable regulations.			
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.			
7.3. Specific end use(s)				
Specific end use(s)	: None.			

#### 8. Exposure controls/personal protection

Personal protection	: Avoid all unnecessary exposure.	
<ul> <li>Respiratory protection</li> </ul>	: Wear approved mask.	
<ul> <li>Hand protection</li> </ul>	: Wear protective gloves.	
<ul> <li>Skin protection</li> </ul>	: Wear suitable protective clothing.	
<ul> <li>Eye protection</li> </ul>	: Chemical goggles or face shield.	
• Others	: When using, do not eat, drink or smoke.	
8.2. Control parameters		
Occupational Exposure Limits	: No data available.	

## 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.



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#### 9. Physical and chemical properties (continued)

Colour	: Clear Colorless
Odour	: Ammonia odour
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -60 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 6510C
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 38 - 100 °C
Initial boiling point [°C]	: 38°C
Final boiling point [°C]	: 100 °C
Evaporation rate	: N/A
Vapour pressure [20°C]	:153 hPa at 20 °C
Vapour pressure mm/Hg	: N/A
Vapour density	: 1,21
Density [g/cm3]	: 0,9
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Infinitely soluble
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 11.7
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: 27%
Explosion limits - lower [%]	: 16%
Oxidising properties	: No data available.

#### 10. Stability and reactivity

10.1. Reactivity

Reactivity

: Not established.

10.2. Chemical stability



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10. Stability and reactivity (continued)				
Chemical stability	: Stable under recommended storage conditions.			
10.3. Possibility of hazardous reactions				
Hazardous reactions	: Not established.			
10.4. Conditions to avoid				
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.			
10.5. Incompatible materials				
Materials to avoid	: Strong acids. Strong bases.			
10.6. Hazardous decomposition products				
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.			

#### 11. Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	
Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Based on available data, the classification criteria are not met.
<ul> <li>Ingestion</li> </ul>	: Based on available data, the classification criteria are not met.
Corrosion	: Causes severe skin burns and eye damage. Causes serious eye damage.
Irritation	: Based on available data, the classification criteria are not met.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
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.

#### 12. Ecological information

#### 12.1. Toxicity



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12. Ecological information (contin	nued)
Toxicity information	: Very toxic to aquatic life.
<u> 12.2. Persistence - degradability</u>	
Persistence - degradability	: Biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	: Not established.
<u>12.4. Mobility in soil</u>	
Mobility in soil	: Not established.
12.5. Results of PBT and vPvB as	sessment
Results of PBT and vPvB assess	<b>nent</b> : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6. Other adverse effects	
Environmental precautions	: Avoid release to the environment.
13. Disposal considerations	
13.1. Waste treatment methods	
General	<ul> <li>Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.</li> <li>Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>
14. Transport information	
14.1. Land transport (ADR-RID)	
Proper shipping name	: AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water with more than 10% but not more than 35% ammonia
UN N°	: 2672
H.I. nr	: 80
ADR - Class	: 8
Labelling - Transport	: 8 : Corrosive substance.

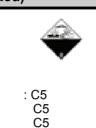
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#### 14. Transport information (continued)



- ADR Classification code
- ADR Group
- **ADR Packing instructions**
- ADR Limited Quantity
- ADR Tunnel code

: III : P001 R001 LP001

- :5L
- : E : Passage forbidden through tunnels of category E.



#### 14.2. Sea transport (IMDG) [English only]

Proper shipping name	: AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia
UN N°	: 2672
IMO-IMDG - Class or division	: 8 : Corrosive substance.
IMO-IMDG - Packing group	: III
IMO- IMDG - Packing instructions	: P001 LP01
IMO-IMDG - Limited quantities	: 5 L
IMO-IMDG - Marine pollution	: Yes
EMS-Nr	: F-A S-B

#### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia
UN N°	: 2672
IATA - Class or division	: 8 : Corrosive substance.
IATA - Packing group	: 111
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 852
- Passenger and Cargo - Maximum Quantity/Packing	: 5 L
IATA - Cargo only	: ALLOWED



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14. Transport information (continued	d)
- Cargo only - Packing instruction - Cargo only - Maximum Quantity/ Packing	
IATA - Limited Quantites ERG-Nr	: 1 L : 8L
15. Regulatory information	
15.1. Safety, health and environmenta	I regulations/legislation specific for the substance or mixture
Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed. e
REACH Restrictions - Annex XVII REACH Authorisation - Annex XIV	: The components of this product are not subject to restrictions. : The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment	
Chemical Safety Assessment	: It has not been carried out.
16. Other information	
Revision	: Revision - See : *
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
List of relevant R phrases (heading 3	
List of full text of H-statements in section 3	: H314 : Causes severe skin burns and eye damage. H335 : May cause respiratory irritation. H400 : Very toxic to aquatic life.
Further information	: None.



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In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

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