AMMONIA SOLUTION 30% EXTRA PURE MSDS



CAS-No.: 1336-21-6 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Mixture
	:
EC Index-No.	: 007-001-01-2
EC-No.	: 215-647-6
CAS-No.	: 1336-21-6
Product code	: 00025
Chemical structure	NH₄OH
	$N\Pi_4 \cup \Pi$

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral),H302Category 4Skin corrosion/irritation,H314Category 1BSpecific target organH335Specific target organH335toxicity — Singleexposure, Category 3,Respiratory tract irritationHazardous to the aquaticHazardous to the aquaticH400environment — AcuteHazard, Category 1

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Full text of H statements : 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] Hazard pictograms (CLP) GHS05 GHS07 GHS09 Signal word (CLP) : Danger Hazard statements (CLP) : H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H335 - May cause respiratory irritation. H400 - Very 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. P310 - Immediately call a POISON CENTER/doctor P391 - Collect spillage.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1.	Substances
Not appl	licable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	70	Not classified
Ammonia		30	Not classified

SECTION 4: First aid measures	
4.1. Description of first aid measures	3
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/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 POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.
	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting 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.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
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	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: 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

See Heading 8. Exposure controls and personal protection.

Safety Data Sheet

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Keep container tightly closed. Store in a well-ventilated place. Keep cool.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	nal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls			
Personal protective equipment	: Avoid all unnecessary exposure.		
Hand protection	: protective gloves		
Eye protection	: Chemical goggles or face shield		
Skin and body protection	: Wear suitable protective clothing		
Respiratory protection	: Wear appropriate mask		
Other information	: Do not eat, drink or smoke during use.		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical a	nd chemical properties		
Physical state	: Liquid		
Molecular mass	: 35.05 g/mol		
Colour	: Clear Colorless.		
Odour	: ammonia odour.		
Odour threshold	: No data available		
рН	: 11.7		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: -60 °C		
Freezing point	: No data available		
Boiling point	: 38 - 100 °C		
Flash point	: No data available		

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9.2.

Other information

Auto-ignition temperature	: 6510 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: 153 hPa at 20 °C
Relative vapour density at 20 °C	: 1.21
Relative density	: No data available
Density	: 0.9 g/cm ³
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	: 0.16 - 0.27 vol %

No add	itional information available	
SECTI	ON 10: Stability and reactivity	
10.1		
10.1.	Reactivity	
No add	itional information available	
10.2.	Chemical stability	
Stable	under normal conditions.	
10.3.	Possibility of hazardous reaction	S
No add	itional information available	
10.4.	Conditions to avoid	
Direct s	sunlight. Extremely high or low temper	ratures.
10.5.	Incompatible materials	
Strong	acids. Strong bases.	
10.6.	Hazardous decomposition produ	cts
No add	itional information available	
SECTI	ON 11: Toxicological information	
11.1.	Information on toxicological effect	
Acute t	oxicity	: Oral: Harmful if swallowed.
ATE C	CLP (oral)	500 mg/kg bodyweight
Skin co	rrosion/irritation	: Causes severe skin burns and eye damage. pH: 11.7

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Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: 11.7
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Certificen matagementy	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Additional mormation	
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects	: Harmful if swallowed.
and symptoms	
SECTION 12: Ecological information	

12.1. Toxici	/
Ecology - water	: Very toxic to aquatic life.

12.2. Persistence and degradability		
AMMONIA SOLUTION 30% Extra Pure (1336-21-6)		
Persistence and degradability	Not established.	

AMMONIA SOLUTION 30% Extra Pure (1336-21-6)			
	AMMONIA SOLUTION 30% Extra Pure (1336-21-6)		
Bioaccumulative potential Not established.			

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

Additional information

: Avoid release to the environment.

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SECTION 13: Disposal considerations	3				
13.1. Waste treatment methods					
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.				
Ecology - waste materials	: Avoid release to the environment.				
SECTION 14: Transport information					
In accordance with ADR / RID / IMDG / IATA / ADN					
14.1. UN number					

UN-No. (ADR)	: 2672
UN-No. (IMDG)	: 2672
UN-No. (IATA)	: 2672
UN-No. (ADN)	: 2672
UN-No. (RID)	: 2672
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: AMMONIA SOLUTION
Proper Shipping Name (IMDG)	: AMMONIA SOLUTION
Proper Shipping Name (IATA)	: Ammonia solution
Proper Shipping Name (ADN)	: AMMONIA SOLUTION
Proper Shipping Name (RID)	: AMMONIA SOLUTION
Transport document description (ADR)	: UN 2672 AMMONIA SOLUTION, 8, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2672 AMMONIA SOLUTION, 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2672 Ammonia solution, 8, III, ENVIRONMENTALLY HAZARDOUS

-	UN 2672	Ammonia s	solution, 8, 1	II, EIN		HAZARD	000
					 	<i></i> 	

- : UN 2672 AMMONIA SOLUTION, 8, III, ENVIRONMENTALLY HAZARDOUS
- : UN 2672 AMMONIA SOLUTION, 8, III, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

Transport document description (ADN)

Transport document description (RID)

ADR		
Transport hazard	d class(es) (ADR)

Danger labels (ADR)



: 8 : 8

: 8 : 8



IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



IATA

Transport hazard class(es) (IATA)	
Hazard labels (IATA)	

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ADN

Transport hazard class(es) (ADN) Danger labels (ADN)



RID
Transport hazard class(es) (RID)
Danger labels (RID)



: 8

: 8



14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport		
Classification code (ADR)	:	C5
Special provisions (ADR)	:	543
Limited quantities (ADR)	:	51
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	Τ7
Portable tank and bulk container special provisions (ADR)	:	TP1
Tank code (ADR)	:	L4BN
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Hazard identification number (Kemler No.)	:	80
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Orange plates

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	2672
Tunnel restriction code (ADR)	: E
EAC code	: 2R
	. 21
- Transport by sea	
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
IBC special provisions (IMDG)	: B11
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2, SW5
Segregation (IMDG) MFAG-No	: SG35
MFAG-NO	: 154
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A64
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C5
Special provisions (ADN)	: 543
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C5
Special provisions (RID)	: 543
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
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Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed	
SZW-lijst van mutagene stoffen	:	None of the components are listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	None of the components are listed	
Demmerik			

Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Safety Data Sheet

: 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.
: None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.