according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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1 Identification Product identifier Trade name: Ammonia Solution · Product code: S25164B Recommended use and restriction on use · Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. • Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road Nazareth, PA 18064 (800) 955-1177 · Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification · Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335 May cause respiratory irritation.

[·] Label elements

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms:



Signal word: Danger
Hazard statements: H290 May be corrosive to metals. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements:

(Cont'd. on page 2)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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	(Cont'd. of page
P234	Keep only in original container.
P261	Avoid breathing mist, vapors, or spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material damage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

1336-21-6 Ammonia, aqueous solution	3-5%
 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 STOT SE 3, H335 	
7732-18-5 Water	97-99%

• Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

After inhalation:

Supply fresh air.

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a doctor.

• After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

• After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

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· After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Coughing Breathing difficulty Dizziness May cause respiratory irritation. Causes skin irritation. Danger of severe eye injury. Danger: Danger of gastric perforation. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed: If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. Medical supervision for at least 48 hours. If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

• Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

• For safety reasons unsuitable extinguishing agents: None.

• Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

[•] Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Towel or mop up material and collect in a suitable container.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and storage

[·] Handling

Precautions for safe handling:

Prevent formation of aerosols.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

· Information about protection against explosions and fires: No special measures required.

[•] Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat.
- Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with acids.

Store away from metals.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

[•] Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Engineering controls: Provide adequate ventilation.

- Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

Neoprene gloves

• Not suitable are gloves made of the following materials: PVA gloves

• Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

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· **Body protection:** Protective work clothing

Limitation and supervision of exposure into the environment No relevant information available. · Risk management measures No relevant information available.

9 Physical and chemical properties					
[·] Information on basic physical and chemical properties · Appearance:					
Color:	Colorless				
· Odor:	Ammonia-like				
· Odor threshold:	Not determined.				
· pH-value:	Alkaline				
 Melting point/Melting range: 	<0 °C (<32 °F)				
 Boiling point/Boiling range: 	Not determined.				
· Flash point:	The product is not flammable.				
· Flammability (solid, gaseous):	Not applicable.				
· Auto-ignition temperature:	Not determined.				
· Decomposition temperature:	Not determined.				
· Danger of explosion:	Product does not present an explosion hazard.				
· Explosion limits					
Lower:	Not determined.				
Upper:	Not determined.				
 Oxidizing properties: 	Non-oxidizing.				
· Vapor pressure:	Not determined.				
· Density:					
Relative density at 20 °C (68 °F):	0.97-0.99				
Vapor density:	Not determined.				
Evaporation rate:	Not determined.				
 Solubility in / Miscibility with 					
Water:	Fully miscible.				
· Partition coefficient (n-octanol/water	r): Not determined.				
· Viscosity					
Dynamic:	Not determined.				
Kinematic:	Not determined.				
• Other information	No relevant information available.				

10 Stability and reactivity

· Reactivity: Reacts with acids.

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	(Cont'd. of page
· Chemical stability: Stable under normal temperatures and pressures.	(contai of pag
• Thermal decomposition / conditions to be avoided:	
No decomposition if used and stored according to specifications.	
Possibility of hazardous reactions	
Exothermic reaction with acids.	
Reacts with oxidizing agents.	
Reacts with inorganic acid chlorides.	
Reacts with halogenated compounds.	
Toxic fumes may be released if heated above the decomposition point.	
Reacts with certain metals.	
Conditions to avoid No relevant information available.	
Incompatible materials	
Strong acids	
Metals.	
Hazardous decomposition products	
Under fire conditions only:	
Nitrogen oxides (NOx)	
1 Toxicological information	
• Acute toxicity: Based on available data, the classification criteria are not met.	
 LD/LC50 values that are relevant for classification: None. Primary irritant effect: On the skin: Strong caustic effect on skin and mucous membranes. 	
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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

[·] Toxicity

· Aquatic toxicity Toxic for aquatic organisms

Persistence and degradability No relevant information available.

- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Ecotoxical effects:

· Remark: Very toxic for fish

- [•] Additional ecological information
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	UN2672	
UN proper shipping name		
DOT, IATA	Ammonia solution	
ADR/RID/ADN, IMDG	AMMONIA SOLUTION	
Transport hazard class(es)		
DOT		
Class	8	
Label	8	

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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de name: Ammonia Solution		
		(Cont'd. of pa
ADR/RID/ADN		
Class	8 (C5)	
Label	8`´	
IMDG, IATA		
Class	8	
Label	8	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	III	
Environmental hazards		
Marine pollutant:		
AV.		
Yes		
×		
Special precautions for user	Warning: Corrosive substances	
Danger code (Kemler): EMS Number:	80 F-A,S-B	
Segregation groups	Alkalis	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: 5 L	
-	On cargo aircraft only: 60 L	

15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) SARA Section 302 (extremely hazardous substances): None of the ingredients are listed. Section 355 (extremely hazardous substances): None of the ingredients are listed. (Cont'd. on page 9)

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Section 313 (Specific toxic chemical listings):

1336-21-6 Ammonia, aqueous solution

TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers

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(Cont'd. of page 9)

SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com