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MATERIAL SAFETY DATA SHEET

Product Name	AMMONIA BUFFER SOLUTION
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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : AMMONIA BUFFER SOLUTION

Product code : A0178

Identification of the product: AMMONIA BUFFER SOLUTION

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use: Industrial. For professional use only.

1.3 Details of the supplier of the safety data sheet

Company identification: CYNOR

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

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 : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

Label element

Labelling EC 67/548 or EC 1999/45

Symbol(s) : C : Corrosive



R Phrase(s) : R34 : Causes

burns. R22 : Harmful if swallowed.

R37 : Irritating to respiratory system.

S Phrase(s) : S24 : Avoid contact with skin.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 : After contact with skin, wash immediately with

S35 : This material and its container must be disposed of in a safe way. 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).

S59 : Refer to manufacturer/supplier for information on recovery/recycling.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words : Danger

Hazard statements : H314 : Causes severe skin burns and eye damage.

2.2 Precautionary statements

- **Prevention :** P280: Wear protective gloves, protective clothing, eye protection, face protection.
P260: Do not breathe dust, fume, gas, mist, vapours, spray.
P264: Wash thoroughly after handling.
- **Response :** P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
- **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.

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/information on ingredients

Substance / Preparation: AMMONIA BUFFER SOLUTION

Hazardous component(s) : This product is hazardous.

Substance name	Contents	CAS No
Ammonia solution :	> 10 < 15 %	1336-21-6
Ammonium chloride :	> 5 < 10 %	12125-02-9
Edetic acid (EDTA) :	> 0.01 < 1 %	60-00-4
Water :	> 75 < 99 %	7732-18-5

4. First aid measures

4.1 Description of first aid measures

Inhalation : Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact : Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

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. Rinse mouth. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Causes severe skin burns and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

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

5. 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 Specific hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present. Thermal decomposition generates: Corrosive vapour.

5.3 Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to 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

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1 Precautions for safe handling

Handling : Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash contaminated clothing before reuse.

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)

No additional information available

8. Exposure controls/personal protection

8.1 Control parameter

Occupational Exposure Limits : No data available.

8.2 Exposure control

Personal protection : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- Others** : When using, do not eat, drink or smoke

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C : Liquid

Odour threshold : Characteristic

pH value : Not applicable.

Melting point [°C] : No data available.

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : N/A

Flammability (solid, gas) : N/A

Flash point [°C] : N/A

Boiling point [°C] : N/A

Initial boiling point [°C] : N/A

Final boiling point [°C] : N/A

Evaporation rate : N/A

Vapour pressure [20°C] : N/A

Vapour pressure mm/Hg : N/A

Vapour density : N/A

Density [g/cm³] : N/A

Relative density, gas (air=1) : N/A

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Miscible in water

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : 10-11

Viscosity at 40°C [mm²/s] : N/A

9.2 Other information

Explosive properties : N/A

Explosion limits - upper [%] : N/A

Explosion limits - lower [%] : N/A

Oxidising properties : No data available

10. Stability and reactivity

10.1 Reactivity

Reactivity : Not established.

10.2 Chemical stability

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.

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.

- **Ingestion :** Based on available data, the classification criteria are not met.

- **Corrosion :** Based on available data, the classification criteria are not met.

- **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

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations

12.2 Persistence – degradability

Persistence - degradability : Biodegradable.

12.3 Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4 Mobility in soil

Mobility in soil : Not established.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : 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 : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1 UN number

UN-No. (ADR) : Not applicable
 UN-No. (IMDG) : Not applicable
 UN-No. (IATA) : Not applicable
 UN-No. (ADN) : Not applicable
 UN-No. (RID) : Not applicable

14.2 UN proper shipping name

Proper Shipping Name (ADR) : Not applicable Proper
 Shipping Name (IMDG) : Not applicable Proper
 Shipping Name (IATA) : Not applicable Proper
 Shipping Name (ADN) : Not applicable Proper
 Shipping Name (RID) : Not applicable

14.3 Transport hazard class(es)

ADR Transport hazard class(es) (ADR) : Not applicable
 IMDG Transport hazard class(es) (IMDG) : Not applicable
 IATA Transport hazard class(es) (IATA) : Not applicable
 ADN Transport hazard class(es) (ADN) : Not applicable
 RID Transport hazard class(es) (RID) : Not applicable

14.4 Packing group

Packing group (ADR) : Not applicable
 Packing group (IMDG): Not applicable
 Packing group (IATA) : Not applicable
 Packing group (ADN) : Not applicable
 Packing group (RID) : Not applicable

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 No data available
- Transport by sea No data available
- Air transport No data available
- Inland waterway transport No data available
- Rail transport No data available

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

Not applicable

15. Regulatory information

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

Safety, health and environmental : Ensure all national/local regulations are observed.
regulations/legislation specific for the substance or mixture



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REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : 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

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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