



CYNOR LABORATORY

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

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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

againstUse: 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.

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### 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

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**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.

<b>Substance name</b>	<b>Contents</b>	<b>CAS No</b>
<b>Ammonia solution :</b>	$> 10 < 15 \%$	1336-21-6
<b>Ammonium chloride :</b>	$> 5 < 10 \%$	12125-02-9
<b>Eddetic acid (EDTA) :</b>	$> 0.01 < 1 \%$	60-00-4
<b>Water :</b>	$> 75 < 99 \%$	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**

### **9.1Information 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 [mm<sup>2</sup>/s] :** N/A

### **9.2Other information**

**Explosive properties :** N/A

**Explosion limits - upper [%] :** N/A

**Explosion limits - lower [%] :** N/A

**Oxidising properties :** No data available

## **10. Stability and reactivity**

### **10.1Reactivity**

**Reactivity :** Not established.

### **10.2Chemical stability**

**Chemical stability :** Stable under recommended storage conditions.

### **10.3Possibility of hazardous reactions**

**Hazardous reactions :** Not established.

### **10.4Conditions 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.



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#### **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**

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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For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

## End of document

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