OXFORD LAB FINE CHEM LLP

**Regd Office:** Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

**Tel:** +91 250 2390032 / 2390989 / 2390990
**Email:** sales@oxfordlabchem.com /
info@oxfordlabchem.com
**Web:** www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

# MATERIAL SAFETY DATA SHEET

# AMMONIA BUFFER SOLUTION pH 7.0

## (For Water Hardness Determination)

## MSDS CAS:

## Section 1: Chemical Product and Company Identification

**Section 1: Chemical Product**
**Product Name: AMMONIA BUFFER SOLUTION**
**CAS#: -**
**Synonym:**
**Chemical Name: Not available.**
**Chemical Formula:**

**Brand: OXFORD**

**Details Of The Supplier Of The Safety Data Sheet:**

**Company identification:** **OXFORD LAB FINE CHEM LLP**
**Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,**
**Navghar, Vasai (East). Palghar - 401 210.**
**Mumbai, Maharashtra, INDIA.**
**Tel: 91-250-2390989**
**Tel/Fax: 91-250-2390032**

## Section 2: Composition and Information on Ingredients

**Mixtures**
**Hazardous ingredients according to Regulation (EC) No 1272/2008**

| Component | CAS-No. | EC-No. | Index-No. | Classification | Concentration |
|---|---|---|---|---|---|
| Ammonium chloride | 12125-02-9 | 235-186-4 | 017-014-00-8 | Acute Tox. 4; Eye Irrit. 2; H302, H319 | 3 - 10 % |

# Section 2: Composition and Information on Ingredients (Continued)

| Component | CAS-No. | EC-No. | Index-No. | Classification | Concentration |
|---|---|---|---|---|---|
| Ammonium hydroxide | 1336-21-6 | 215-647-6 | 007-001-01-2 | Acute Tox. 4; Skin Corr. 1B; Aquatic Acute 1; H302, H314, H400 | 5 - 10 % |

## Hazardous ingredients according to Directive 1999/45/EC

| Component | CAS-No. | EC-No. | Index-No. | Classification | Concentration |
|---|---|---|---|---|---|
| Ammonium chloride | 12125-02-9 | 235-186-4 | 017-014-00-8 | Xn, R22 - R36 | < 10 % |

| Component | CAS-No. | EC-No. | Index-No. | Classification | Concentration |
|---|---|---|---|---|---|
| Ammonium hydroxide | 1336-21-6 | 215-647-6 | 017-014-00-8 | C, N, R22 - R34 - R50 | 5 - 10 % |

**For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16**

# Section 3: Hazards Identification

## Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008

**Skin corrosion (Label elements), H314**
**Specific target organ toxicity - single exposure, Respiratory system, H335**
**Acute aquatic toxicity, H400**

## Classification according to EU Directives 67/548/EEC or 1999/45/EC

| | | |
|---|---|---|
| **Xi** | **Irritant** | **R36/37/38** |
| **N** | **Dangerous for the environment** | **R50** |

**For the full text of the R-phrases mentioned in this Section, see Section 16.**

# Section 3: Hazards Identification (Continued)

## Label elements

## Labelling according Regulation (EC) No 1272/2008

| | |
|---|---|
| **Signal word** | **Danger** |
| **Hazard statement(s)** | |
| **H314** | **Causes severe skin burns and eye damage.** |
| **H335** | **May cause respiratory irritation.** |
| **H400** | **Very toxic to aquatic life.** |

## Precautionary statement(s)

| | |
|---|---|
| **P261** | **Avoid breathing vapours.** |
| **P273** | **Avoid release to the environment.** |
| **P280** | **Wear protective gloves/ protective clothing/ eye protection/ face protection.** |
| **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 or doctor/ physician.** |
| **Supplemental Hazard Statements** | **none** |

## According to European Directive 67/548/EEC as amended.

| | |
|---|---|
| **Hazard symbol(s)** | **Xi Irritant**<br>**N Dangerous for the environment** |
| **R-phrase(s)** | |
| **R36/37/38** | **Irritating to eyes, respiratory system and skin.** |
| **R50** | **Very toxic to aquatic organisms.** |
| **S-phrase(s)** | |
| **S26** | **In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.** |
| **S61** | **Avoid release to the environment. Refer to special instructions/ Safety data sheets.** |

## Other hazards

**This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.**

# Section 4: First Aid Measures

## Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling and/or in section 11.

## Indication of any immediate medical attention and special treatment needed

no data available

# Section 5: Fire and Explosion Data

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special hazards arising from the substance or mixture

Nitrogen oxides (NOx), Hydrogen chloride gas

## Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## Further information

no data available

# Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**
**Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.**

**Environmental precautions**
**Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.**

**Methods and materials for containment and cleaning up**
**Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.**

**Reference to other sections**
**For disposal see section 13.**

# Section 7: Handling and Storage

**Precautions for safe handling:** **Avoid inhalation of vapour or mist.**

**Conditions for safe storage:** **Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials**

# Section 8: Exposure Controls/Personal Protection

**Control parameters**
**Components with workplace control parameters**

**Exposure controls**

**Appropriate engineering controls**
**Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**

# Section 8: Exposure Controls/Personal Protection (Continued)

**Personal protective equipment**

**Eye/face protection:** **Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).**

**Skin protection:** **Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.**

**The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.**

**Body Protection:** **Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.**

**Respiratory protection:** **Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**

**Control of environmental exposure:** **Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.**

# Section 9: Physical and Chemical Properties

**Appearance** : Form: Liquid
**Odour** : no data available
**Color** : Ammonia odor
**Molecular Weight** : no data available
**Odour Threshold** : no data available
**pH** : 10 at 20 °C
**Melting point/freezing point:** no data available
**Initial boiling point and boiling range:** 100 °C at 1.013 hPa

## Section 9: Physical and Chemical Properties (Continued)

**Flash point** : no data available
**Evaporation rate** : no data available
**Flammability (solid, gas)** : no data available
**Upper/lower flammability or explosive limits**: no data available
**Vapour pressure** : no data available
**Vapour density** : no data available
**Relative density** : no data available
**Water solubility** : no data available
**Partition coefficient** : no data available
**Auto ignition Temperature** : no data available
**Decomposition temperature** : no data available
**Viscosity** : no data available
**Explosive properties** : no data available.
**Oxidizing properties** : no data available
**Other safety information** : no data available

## Section 10: Stability and Reactivity Data

**Reactivity** : no data available
**Chemical stability** : Stable under recommended storage conditions.
**Possibility of hazardous reactions:** no data available
**Conditions to avoid** : no data available
**Incompatible materials** : Zinc, Strong bases, Strong oxidizing agents, Iron, Copper, Strong acids
**Hazardous decomposition products:** Other decomposition products - no data available

## Section 11: Toxicological Information

**Information on toxicological effects**

**Acute toxicity**: no data available
**Skin corrosion/irritation**: no data available
**Serious eye damage/eye irritation**: no data available
**Respiratory or skin sensitization**: no data available
**Germ cell mutagenicity**: no data available

# Section 11: Toxicological Information (Continued)

## Carcinogenicity

**IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**

**Reproductive toxicity: no data available**
**Specific target organ toxicity - single exposure: no data available**
**Specific target organ toxicity - repeated exposure: no data available**
**Aspiration hazard: no data available**
**Aspiration hazard: no data available**

**To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.**

# Section 12: Ecological Information

**Toxicity: no data available**
**Persistence and degradability: no data available**
**Bio accumulative potential: no data available**
**Mobility in soil: no data available**
**Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.**

**Other adverse effects**
**no data available**

# Section 13: Disposal Considerations

## Waste treatment methods

**Product: Offer surplus and non-recyclable solutions to a licensed disposal company.**

**Contaminated packaging: Dispose of as unused product.**

# Section 14: Transport Information

## Land transport (ADR-RID)

**General Information: - Not Regulated**

## Sea transport (IMDG) [English only]

**General Information: - Not Regulated**

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

**General Information: - Not Regulated**

# Section 15: Other Regulatory Information

**This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.**

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

**no data available**

## Chemical Safety Assessment

**For this product a chemical safety assessment was not carried out**

# Section 16 - Additional Information

**Full text of H-Statements referred to under sections 2 and 3.**

| | |
|---|---|
| **Acute Tox.** | **Acute toxicity** |
| **Aquatic Acute** | **Acute aquatic toxicity** |
| **Eye Irrit.** | **Eye irritation** |
| **H302** | **Harmful if swallowed.** |
| **H314** | **Causes severe skin burns and eye damage.** |
| **H319** | **Causes serious eye irritation.** |
| **H335** | **May cause respiratory irritation.** |
| **H400** | **Very toxic to aquatic life.** |
| **Skin Corr.** | **Skin corrosion** |

**Full text of R-phrases referred to under sections 2 and 3**

| | |
|---|---|
| **C** | **Corrosive** |

**Regd Office:** Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

**Tel:** +91 250 2390032 / 2390989 / 2390990
**Email:** sales@oxfordlabchem.com /
info@oxfordlabchem.com
**Web:** www.oxfordlabchem.com



| | |
|---|---|
| **R22** | **Harmful if swallowed.** |
| **R34** | **Causes burns.** |
| **R36** | **Irritating to eyes.** |
| **N** | **Dangerous for the environment** |
| **R36/37/38** | **Irritating to eyes, respiratory system and skin.** |
| **R50** | **Very toxic to aquatic organisms.** |
| **Xn** | **Harmful** |

# *Disclaimer:*

**********

**The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.**

**Oxford Lab Fine Chem LLP makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Oxford Lab Fine Chem LLP will not be responsible for damages resulting from use of or reliance upon this information.**