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** **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)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN N° : 3082
H.I. nr : 90
ADR – Class : 9

Sea transport (IMDG) [English only]

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN N° : 3082
IMO-IMDG - Class or division: 9: Miscellaneous dangerous substances and articles.
IMO-IMDG - Packing group: III

Air transport (ICAO-IATA) [English only]

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN N° : 3082
IATA - Class or division: 9: Miscellaneous dangerous substances and articles.
IATA - Packing group : III

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

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

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**
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:

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