OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
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Tel: +91 250 2390032 / 2390989 / 2390990
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

N-CETYL-N,N,N-TRIMETHYL AMMONIUM BROMIDE

Extra Pure (CTAB)
MSDS CAS: 57-09-0

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: N-CETYL-N,N,N-TRIMETHYL AMMONIUM BROMIDE
CAS#: 57-09-0
Synonym:
Chemical Name: Not available.
Chemical Formula: $C_{19}H_{42}BrN$
Molecular Weight: 364.45

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

Composition:

Name	CAS #	% by Weight
N-CETYL-N,N,N-TRIMETHYL AMMONIUM BROMIDE	57-09-0	100

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Section 3: Hazards Identification

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

Acute toxicity, Oral (Category 4), H302
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Specific target organ toxicity -single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity -repeated exposure, Oral(Category 2), Gastrointestinal tract, H373
Acute aquatic toxicity(Category 1), H400

Label elements:

Hazard statement(s):

H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H373: May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.
H400: Very toxic to aquatic life.

Precautionary statement(s):

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280: Wear eye protection/ face protection.
P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

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Section 4: 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: Wash off with soap and plenty of water.

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

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

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: Carbon oxides, Nitrogen oxides (NOx), Hydrogen bromide gas.

Special protective equipment for fire-fighters: Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dus

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 for cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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Section 7: Handling and Storage

Handling: **Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Provide appropriate exhaust ventilation at places where dust is formed.**

Storage: **Store in cool place.Keep container tightly closed in a dry and well-ventilated place.Storage class (TRGS 510): Non Combustible Solids.**

Section 8: Exposure Controls/Personal Protection

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

Personal protective equipment:

Eye/face protection: **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: **Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.**

Respiratory protection: **Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**

Control of environmental exposure: **No special environmental precautions required.**

Section 9: Physical and Chemical Properties

Appearance Form	**: Solid.**
Colour	**: Not available**
pH	**: 5.0 -7 At 36.4 g/l At 25 °C**
Molecular Weight	**: 364.45**
Melting point	**: 248 -251 °C -lit**
Boiling point	**: Not available**
Flash point	**: 244 °C - closed cup**
Ignition temperature	**: Not available**
Lower explosion limit	**: Not available**
Upper explosion limit	**: Not available**
Density	**: Not available**
Water solubility	**: 36.4 g/l At 20 °C-completely soluble**

Section 10: Stability and Reactivity Data

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

Conditions to avoid: **No data available.**

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx).

Section 11: Toxicological Information

Acute toxicity: **LD50Oral-Rat-410 mg/kg**

Skin corrosion/irritation: **Skin-Rabbit**
Result: Moderate skin irritation.

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Section 11: Toxicological Information (Continued)

Serious eye damage/eye irritation: Skin-Rabbit
Result: Severe eye irritation.

Respiratory or skin sensitisation: No data available.

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

Reproductive toxicity: No data available.

Specific target organ toxicity -single exposure: Inhalation-May cause respiratory irritation.

Specific target organ toxicity -repeated exposure: Oral-May cause damage to organs through prolonged or repeated exposure.-Gastrointestinal tract.

Section 12: Ecological Information

Toxicity to fish: LC50-Danio rerio (zebra fish)-0.3 mg/l-96.0 h

Toxicity to daphnia and other aquatic invertebrates:EC50-Daphnia magna(Water flea)-0.03 mg/l-48h

Persistence and degradability:
Biodegradability Result: -Biodegradable

Bioaccumulative potential: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

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: Very toxic to aquatic life.

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Section 13: Disposal Considerations

Waste treatment methods:

Product: **Offer surplus and non-recyclable solutions to a licensed disposal company.Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.**

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

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name	**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S**
UN N°	**: 3077**
H.I. nr	**: 90**
ADR - Class	**: 9**
Labelling - Transport	**: 9 : Miscellaneous dangerous substances and articles**

Sea transport (IMDG) [English only]

Proper shipping name	**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S**
UN N°	**: 3077**
IMO-IMDG - Class or division	**: 9 : Miscellaneous dangerous substances and articles**
IMO-IMDG - Packing group	**: III**
IMO- IMDG - Packing group	**: P002 R001 LP002**

Air transport (ICAO-IATA) [English only]

Proper shipping name	**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S**
UN N°	**: 3077**
IATA - Class or division	**: 9 : Miscellaneous dangerous substances and articles**
IATA - Packing group	**: III**

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Section 15: Other Regulatory Information

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

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.

Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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.

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