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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

TETRA BUTYL AMMONIUM HYDROXIDE 20% SOLUTION

(20% Solution in Water)
MSDS CAS: 2052-49-5

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: TETRA BUTYL AMMONIUM HYDROXIDE 20%SOLUTION (20% Solution in Water)
CAS#: 2052-49-5
Synonym: Not available.
Chemical Name: Not available.
Chemical Formula: Not available.
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,
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Section 2: Composition and Information on Ingredients

Substance / Preparation: Preparation.
Hazardous component(s): This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
TETRABUTYL AMMONIUM HYDROXIDE (20% SOL.IN WATER)	> 15 < 25 %	2052-49-5	-----	-----	-----	C; R35 ---------- Skin Corr. 1A _ H314

Section 2: Composition and Information on Ingredients (Continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Water	> 75 < 99 %	7732-18-5	231-791-2	-----	-----	Not classified (DSD/DPD) ---------- Not classified (GHS)

Section 3: Hazards Identification

Classification of the substance or mixture:

Classification EC 67/548 or EC 1999/45:
Classification: C; R35

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP):
Health hazards: Skin corrosion - Category 1A - Danger (CLP: Skin Corr. 1A) H314

Label elements:

Labelling EC 67/548 or EC 1999/45:
Symbol(s): C: Corrosive

R Phrase(s): R35: Causes severe burns.

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.

Contains: Water - TETRABUTYL AMMONIUM HYDROXIDE (20% SOL.IN WATER)

Labelling Regulation EC 1272/2008 (CLP)
Signal words: Danger

Section 3: Hazards Identification (Continued)

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

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.

Contains: **Water - TETRABUTYL AMMONIUM HYDROXIDE (20% SOL.IN WATER)**

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.

Section 4: First Aid Measures

Description of first aid measures

Inhalation:

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

Skin contact:

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

Section 4: First Aid Measures (Continued)

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:
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed:
Symptoms relating to use: Causes severe skin burns and eye damage.

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).

Section 5: Fire and Explosion Data

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.

Special hazards arising from the substance or mixture
Hazardous combustion products: Under fire conditions, hazardous fumes will be present.
Thermal decomposition generates: Corrosive vapours.

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.

Section 6: Accidental Release Measures

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.

Environmental precautions:

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

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. Collect spillage. Store away from other materials.

Reference to other sections: See section 8. Exposure controls/personal protection

Section 7: Handling and Storage

Precautions for safe handling

Handling:

Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact during pregnancy or while nursing. Wash thoroughly after handling.

Technical protective measures: Provide good ventilation in process area to prevent formation of vapour.

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.

Specific end use(s): None.

Section 8: Exposure Controls/Personal Protection

Exposure controls:

Personal protection: Avoid all unnecessary exposure.
Respiratory protection: Wear approved mask.
Hand protection: Wear protective gloves.
Skin protection: Wear suitable protective clothing.
Eye protection: Chemical goggles or face shield.
Others: When using, do not eat, drink or smoke.

Control parameters:

Occupational Exposure Limits: No data available.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C:	Liquid.
Colour:	Colorless
Odour:	Characteristic.
Odour threshold:	No data available.
pH value:	No data available.
Melting point [°C]:	No data available.
Decomposition point [°C]:	N/A
Critical temperature [°C]:	No data available.
Auto-ignition temperature [°C]:	No data available.
Flammability (solid, gas):	N/A
Flash point [°C]:	No data available.
Density [g/cm3]:	0,995
Relative density, gas (air=1):	N/A
Relative density, liquid (water=1):	N/A
Solubility in water [% weight]:	Miscible in water
Solubility in water:	No data available.
Log Pow octanol / water at 20°C:	No data available.
Solubility:	N/A
Viscosity at 40°C [mm2/s]:	No data available.

Other information: No data available.

Section 10: Stability and Reactivity Data

Reactivity: Not established.
Chemical stability: Stable under recommended storage conditions.
Hazardous reactions: Not established.
Conditions to avoid: Direct sunlight. Extremely high or low temperatures.
Materials to avoid: Strong acids. Strong bases.
Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.
Thermal decomposition generates: Corrosive vapours.

Section 11: Toxicological Information

Information on toxicological effects

Toxicity information:

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

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: Causes severe skin burns and eye damage.
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.

Section 12: Ecological Information

Toxicity

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

Section 12: Ecological Information (Continued)

Persistence – degradability: **Biodegradable.**

Bioaccumulative potential: **Not established.**

Mobility in soil: **Not established.**

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.

Other adverse effects
Environmental precautions: **Avoid release to the environment.**

Section 13: Disposal Considerations

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.

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
UN N°: 3267
H.I. nr: 80
ADR - Class: 8

Sea transport (IMDG) [English only]
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
UN N°: 3267
IMO-IMDG - Class or division: 8: Corrosive substance.
IMO-IMDG - Packing group: II

Section 14: Transport Information (Continued)

Air transport (ICAO-IATA) [English only]
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
UN N°: 3267
IATA - Class or division: 8: Corrosive substance.
IATA - Packing group: II

Section 15: Other Regulatory Information

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

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.

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