

TETRA BUTYL AMMONIUM HYDROXIDE 20% AQUEOUS SOLUTION VERSION : 01 DATE OF ISSUE :02-12-2016 SUPERSEDES : Nil Page 1 of 9

Product Code : 19330

1. Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier Trade name : TETRABUTYL AMMONIUM HYDROXIDE 20% AQUEOUS SOLUTION** Product code : 19330 1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only. **1.3.** Details of the supplier of the safety data sheet **Company identification : MOLYCHEM** Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email: info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503. 2. Hazards identification -DSD 2.1. 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 2.2. 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.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



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Signal words : Danger

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.

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

Substance name	Contents	CAS No
<b>TETRABUTYL AMMONIUM :</b>	> 15 < 25 %	2052-49-5
HYDROXIDE (20% SOL.IN WATER)		
Water :	>75 < 99 %	7732-18-5

4. First aid measures

4.1. 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.

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

**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.

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. Special hazards arising from the substance or mixture

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours.

### **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

**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. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection



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#### 7. Handling and storage

#### 7.1. 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.

#### 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)

**Specific end use(s)** : None.

#### 8. Exposure controls/personal protection

8.1. Exposure controls

**Personal protection** 

**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.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

**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.

**Boiling point** [°C] : N/A

**Initial boiling point** [°C] : No data available.

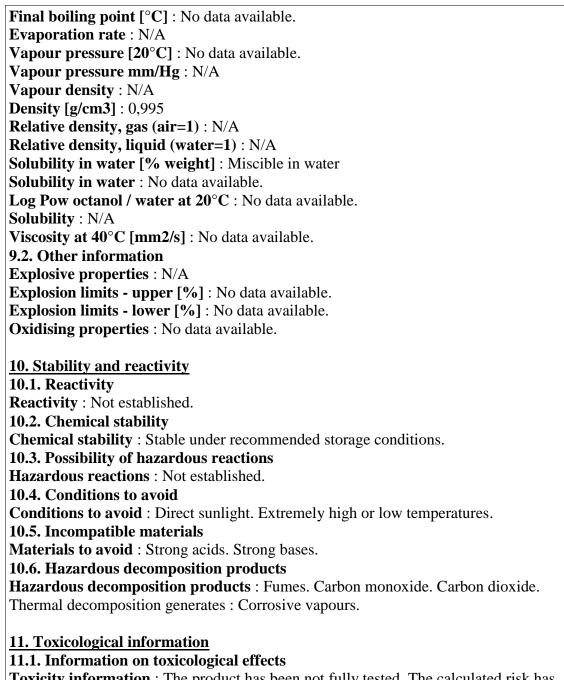
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**Toxicity information** : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations. **Acute toxicity** 



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• 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.

#### **<u>12. Ecological information</u>**

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.

### **<u>13. Disposal considerations</u>**

### **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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**<u>14. Transport information</u>** 14.1. Land transport (ADR-RID) **Proper shipping name** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. **UN N°** : 3267 **H.I. nr** : 80 ADR - Class: 8 Labelling - Transport : 8 : Corrosive substance. ADR - Classification code : C7 ADR - Group : II ADR - Packing instructions : P001 **ADR - Limited Ouantity** : 1 L **ADR** - **Tunnel code** : E : Passage forbidden through tunnels of category E. 14.2. Sea transport (IMDG) [English only] **Proper shipping name** : CORROSIVE LIOUID, BASIC, ORGANIC, N.O.S. **UN N°** : 3267 **IMO-IMDG - Class or division** : 8 : Corrosive substance. **IMO-IMDG - Packing group** : II IMO- IMDG - Packing instructions : P001 **IMO-IMDG - Limited quantities : 1 L IMO-IMDG - Marine pollution** : Yes EMS-Nr : F-A S-B 14.3. 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 IATA - Passenger and Cargo Aircraft : ALLOWED - Passenger and Cargo - Packing: 851 instruction - Passenger and Cargo - Maximum : 1 L **Ouantity**/Packing IATA - Cargo only : ALLOWED - Cargo only - Packing instruction : 855 - Cargo only - Maximum Quantity/: 30 L Packing IATA - Limited Quantites : 0.5 L ERG-Nr:8L



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**15. Regulatory information** 

**15.1.** Safety, health and environmental regulations/legislation specific for the substance or mixture

**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.

**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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#### End of document Prepared by: MOLYCHEM (INDIA)

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#### Kulgaon, Badlapur (E), Dist.-Thane-421 503

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