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# 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name: TETRA BUTYL AMMONIUM HYDROXIDE 25% IN METHANOL

**Product code**: 19335

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: T; R23/24/25-R39/23/24/25

C; R35

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

**Health hazards**: Specific Target Organ Toxicity - Single exposure - Category 1 -

Danger (CLP: STOT SE 1) H370

Skin corrosion - Category 1A - Danger (CLP: Skin Corr. 1A) H314

Acute toxicity, dermal - Category 3 - Danger (CLP: Acute Tox. 3) H311

Acute toxicity, Inhalation - Category 3 - Danger (CLP: Acute Tox. 3) H331

Acute toxicity, Oral - Category 3 - Danger (CLP: Acute Tox. 3) H301

#### 2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s): T: Toxic

C: Corrosive





**R Phrase(s)**: R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R35 : Causes severe burns.

R39/23/24/25 : Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

**S Phrase(s)**: S4: Keep away from living quarters.

S24: Avoid contact with skin.

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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.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

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: TETRABUTYL AMMONIUM HYDROXIDE 40% IN WATER - Methanol Labelling Regulation EC 1272/2008 (CLP)

# **Hazard pictograms**



Signal words : Danger

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

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H331 : Toxic if inhaled.

H370: Causes damage to organ.

# **Precautionary statements**

• **Prevention**: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• **Response**: P307+P311: IF EXPOSED: Call a POISON CENTER or doctor.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

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.

P361: Remove immediately all contaminated clothing.

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• **Storage**: P403+P233: Store in well-ventilated place. Keep container tightly closed. 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.

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 TETRABUTYL AMMONIUM**:

> 50 < 75 %
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**HYDROXIDE 40% IN WATER** 

**Methanol:** > 25 < 50 % 67-56-1

#### 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. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

**Skin contact**: Wash contaminated clothing before reuse. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

**Eye contact**: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or doctor.

**Ingestion**: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label).

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

**Symptoms relating to use**: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard. Causes damage to organ. Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

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**General information**: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER or doctor. Specific treatment (see on this label).

#### **5.** Fire-fighting measures

#### 5.1. Extinguishing media

 $\textbf{Suitable extinguishing media}: Foam.\ Dry\ powder.\ Carbon\ dioxide.\ Water\ spray.\ Sand.$ 

**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. Avoid breathing dust, fume, gas, mist, vapours, spray.

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

#### **6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

# 7.1. Precautions for safe handling

**Handling**: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact during pregnancy or while nursing.

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

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# 7.2. Conditions for safe storage, including any incompatibilities

**Storage**: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**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**: In case of insufficient ventilation, wear suitable respiratory equipment.

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

- Hand protection : Wear protective gloves.
- Skin protection : Wear suitable protective clothing.
- Eve 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.

Occupational Exposure Limits: Methanol: OEL (UK)-LTEL [ppm]: 200

Methanol: OEL (UK)-STEL [ppm]: 250

Methanol : ILV (EU) - 8 H - [mg/m<sup>3</sup>] : ( 260 Skin. ) Methanol : ILV (EU) - 8 H - [ppm] : ( 200 Skin. )

Methanol : HTP-värden - 8 H - [ppm] : 200

Methanol: HTP-värden - 15min - [ppm]: 250

Methanol: HTP-värden - 8 H - [mg/m³]: 270

Methanol: HTP-värden - 15min - [mg/m³]: 330

Methanol : NGV - [ppm] : 200

Methanol : NGV - [mg/m<sup>3</sup>] : 250 Methanol : KTV - [ppm] : 250

Methanol : KTV - [mg/m<sup>3</sup>] : 350

Methanol: VLA-ED [ppm]: 200

 $Methanol: VLA\text{-}ED \ [mg/m^3]: 266$ 

Methanol: VLA-EC [ppm]: 250

Methanol : VLA-EC  $[mg/m^3]$  : 333

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### 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.. Odour threshold : 100 ppm pH value : No data available. Melting point [°C] : -97.8°C Decomposition point [°C] : N/A

**Critical temperature** [°C] : No data available.

**Auto-ignition temperature** [°C]: 455 deg C (851.00 deg F)

**Flammability** (**solid, gas**) : Flammable. **Flash point** [°C] : 11 °C - closed cup

**Boiling point** [ $^{\circ}$ C] : 65 $^{\circ}$ C

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

Evaporation rate: N/A

Vapour pressure [20°C]: No data available.

Vapour pressure mm/Hg: N/A

**Vapour density**: 1,11 **Density** [g/cm3]: 0.8 - 0.83

Relative density, gas (air=1) : N/A Relative density, liquid (water=1) : N/A

Solubility in water [% weight]: In water, material soluble.

**Solubility in water**: No data available.

Log Pow octanol / water at 20°C : No data available.

Solubility:>13

Viscosity at 40°C [mm2/s]: No data available.

**9.2. Other information Explosive properties**: N/A

**Explosion limits - upper [%]**: No data available.

**Explosion limits - lower [%]** 

**Oxidising properties**: No data available.

### 10. Stability and reactivity

10.1. Reactivity

**Reactivity**: Not established. **10.2. Chemical stability** 

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

**10.3. Possibility of hazardous reactions Hazardous reactions** : Not established.

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#### 10.4. Conditions to avoid

**Conditions to avoid**: Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

**Materials to avoid**: Strong acids. Strong bases. **10.6. Hazardous decomposition products** 

**Hazardous decomposition products**: Fumes. Carbon monoxide. Carbon dioxide.

Thermal decomposition generates: Corrosive vapours.

#### 11. Toxicological information

### 11.1. 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 : Toxic if inhaled.

• Dermal: Toxic in contact with skin.

• **Ingestion** : Toxic if swallowed.

**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** : Causes damage to organ. Causes damage to organ. Causes damage to organ.

**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.

#### 12. Ecological information

### 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

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**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.

#### 13. Disposal considerations

# 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.

**Special precautions**: Hazardous waste due to toxicity.

# 14. Transport information

# 14.1. Land transport (ADR-RID)

Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

UN N°: 2924 H.I. nr: 20110 ADR - Class: 3

**Labelling - Transport**: 3: Flammable liquid. 8: Corrosive substance.

**ADR - Classification code : FC** 

ADR - Group : II

**ADR - Packing instructions**: P001 **ADR - Limited Quantity**: 1 L

**ADR - Tunnel code**: D/E: Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

#### 14.2. Sea transport (IMDG) [English only]

**Proper shipping name**: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

**UN N°**: 2924

**IMO-IMDG - Class or division**: 3: Flammable liquid. (8: Corrosive substance.)

**IMO-IMDG - Packing group**: II

IMO-IMDG - Packing instructions: P001 IMO-IMDG - Limited quantities: None IMO-IMDG - Marine pollution: No

EMS-Nr: F-E S-C

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

**Proper shipping name**: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

UN N°: 2924

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**IATA - Class or division**: 3: Flammable liquid. (8: Corrosive substance.)

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing: 352

instruction

- Passenger and Cargo - Maximum : 1 L

Quantity/Packing

IATA - Cargo only: ALLOWED

- Cargo only - Packing instruction : 363- Cargo only - Maximum Quantity/ : 5 L

**Packing** 

IATA - Limited Quantites: 0.5 L

ERG-Nr: 3CH

#### 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.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

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#### **End of document**

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