# Material Safety Data Sheet TETRA ETHYL AMMONIUM HYDROGEN SULPHATE FOR HPLC 99% Product Code: 19339 VERSION: 01 DATE OF ISSUE:02-12-2016 SUPERSEDES: Nil Page 1 of 8

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

#### 1.1. Product identifier

Trade name: TETRAETHYL AMMONIUM HYDROGEN SULPHATE HPLC 99%

**Product code**: 19339

**Identification of the product**: TETRAETHYL AMMONIUM HYDROGEN SULFATE

FOR HPLC 99%

CAS No : 16873- 13- 5

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: Xi; R36/37/38

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

**Health hazards**: Specific Target Organ Toxicity - Single exposure - Respiratory tract

irritation - Category 3 - Warning (CLP: STOT SE 3) H335

Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315

Eye irritation - Category 2A - Warning (CLP: Eye Irrit. 2) H319

#### 2.2. Label elements

Labelling EC 67/548 or EC 1999/45

**Symbol(s)** : Xi : Irritant



**R Phrase(s)**: R36/37/38: Irritating to eyes, respiratory system and skin.

**S Phrase(s)**: S26: In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

S36: Wear suitable protective clothing.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

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**Signal words**: Warning

**Hazard statements**: H319: Causes serious eye irritation.

H315 : Causes skin irritation.

H335 : May cause respiratory irritation.

## **Precautionary statements**

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

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

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

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

P332+P313: If skin irritation occurs: Get medical advice.

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.

P363: Wash contaminated clothing before reuse.

- **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.

#### 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 :** TETRAETHYL AMMONIUM HYDROGEN SULFATE 99%

CAS No: 16873-13-5

Substance.

Contains no other components or impurities which will influence the classification of the product.

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#### 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. Call a POISON CENTER or doctor if you feel unwell.

**Skin contact**: Specific treatment (see on this label). Get medical advice. If skin irritation occurs: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

**Eye contact**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

**Ingestion**: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

**Symptoms relating to use**: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

**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.

#### **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

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**Clean up methods**: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

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

See section 8. Exposure controls/personal protection

## 7. Handling and storage

## 7.1. Precautions for safe handling

**Handling**: Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wash thoroughly after handling.

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

**Special precautions**: Avoid breathing dust, fume, gas, mist, vapours, spray.

#### 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 - 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**: 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 safety glasses.
- 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 : Solid.

**Odour threshold**: No data available.

**pH value**: Not applicable.

Melting point [°C]: 243 - 245 °C Decomposition point [°C]: N/A Critical temperature [°C]: N/A Auto-ignition temperature [°C]: N/A

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Flammability (solid, gas): N/A

Flash point  $[^{\circ}C]$ : N/A Boiling point  $[^{\circ}C]$ : N/A

Initial boiling point [°C] : N/A Final boiling point [°C] : N/A

**Evaporation rate**: N/A

Vapour pressure [20°C] : N/A Vapour pressure mm/Hg : N/A

Vapour density : N/A Density [g/cm3] : N/A

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

**Solubility in water [% weight]** : Soluble in water

**Solubility in water**: N/A

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

Solubility: N/A

Viscosity at 40°C [mm2/s]: N/A

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

Explosion limits - upper [%] : N/A Explosion limits - lower [%] : N/A 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.

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.

#### 11. Toxicological information

## 11.1. Information on toxicological effects

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#### **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**: Based on available data, the classification criteria are not met.

**Irritation**: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

**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.

#### 12. Ecological information

# 12.1. Toxicity

**Toxicity information**: Not established.

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.

#### 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.

#### 14. Transport information

#### **14.1.** Land transport (ADR-RID)

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**General information**: Not regulated.

14.2. Sea transport (IMDG) [English only]

**General information**: Not regulated.

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

**General information**: Not regulated.

## 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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