## **Material Safety Data Sheet**



#### TRITON B FOR SYNTHESIS

(Benzyltrimethylammonium hydroxide)

VERSION: 01 DATE OF ISSUE: 02-12-2016

**SUPERSEDES**: Nil

Product Code: 19650 Page 1 of 10

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

1.1. Product identifier

**Trade name**: TRITON B FOR SYNTHESIS

**Product code**: 19650

**Identification of the product**: TRITON B FOR SYNTHESIS

CAS No:100-85-6

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**: F; R11 T; R23/24/25-R39/23/24/25

C; R34

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

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

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

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

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

Physical hazards: Flammable liquids - Category 2 - Danger (CLP: Flam. Liq. 2) H225

2.2. Label elements

**Labelling EC 67/548 or EC 1999/45 Symbol(s)**: F: Highly flammable

T : Toxic





**R Phrase(s)**: R11: Highly flammable.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

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R34 : Causes burns.

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

**S Phrase(s)**: S7: Keep container tightly closed.

S16: Keep away from sources of ignition - No smoking.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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).

Labelling Regulation EC 1272/2008 (CLP)

## Hazard pictograms



Signal words: Danger

**Hazard statements**: H225: Highly flammable liquid and vapour.

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**: P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.

P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.

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.

P233: Keep container tightly closed.

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.

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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.

P370+P378: In case of fire: Use for extinction.

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

P403+P235: Store in well-ventilated place. Keep cool.

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 : TRITON B FOR SYNTHESIS** 

CAS No:100-85-6

Substance.

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

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

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

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

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

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**Symptoms relating to use**: Causes damage to organ. Causes severe skin burns and eye damage. Repeated exposure to this material can result n 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.

**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). Specific treatment (see on this label). Call a POISON CENTER or doctor.

## 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

Flammable class: Highly flammable liquid and vapour.

**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.

**Technical measures**: Use special care to avoid static electric charges.

**Special precautions**: Remove ignition sources. No naked lights. No smoking.

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

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See section 8. Exposure controls/personal protection

## 7. Handling and storage

## 7.1. Precautions for safe handling

**Handling**: Handle empty containers with care because residual vapours are flammable. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse.

**Technical protective measures**: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.

**Special precautions**: No naked lights. No smoking.

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage**: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.

**Storage regulation**: Comply with applicable regulations.

**Storage - away from**: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

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**: 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.
- **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.

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**pH value**: No data available.

Melting point [°C]: No data available.

Decomposition point [°C]: N/A

Critical temperature [°C]: N/A

Auto-ignition temperature [°C]: N/A

Flammability (solid, gas): Flammable.

Highly flammable liquid and vapour.

Flash point [°C] : 15 °C Boiling point [°C] : N/A

Initial boiling point  $[^{\circ}C]$ : N/A Final boiling point  $[^{\circ}C]$ : 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] : 0,95

Relative density, gas (air=1): N/A Relative density, liquid (water=1): N/A Solubility in water [% weight]: Miscible.

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 [%]: 36,50% Explosion limits - lower [%]: 5,50% 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. Open flame.

10.5. Incompatible materials

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Materials to avoid: Strong acids. Strong bases.

10.6. Hazardous decomposition products

**Hazardous decomposition products**: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates: Corrosive vapours.

#### 11. Toxicological information

### 11.1. Information on toxicological effects

**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.

**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

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#### 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.

Handle empty containers with care because residual vapours are flammable.

#### 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

 $\label{eq:ADR-Tunnel code} \textbf{ADR-Tunnel code}: D/E: Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.$ 

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

**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

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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.

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