

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)

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

##### 1.1. Product identifier

Trade name : S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)

Product code : B0041000500

Identification of the product : S-BENZYLTHIURONIUM CHLORIDE 98%  
 CAS No :538-28-3

##### 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 : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : T; R25

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

Health hazards : 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)



## MATERIAL SAFETY DATA SHEET (MSDS)

### S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)

#### 2. Hazards identification -DSD (continued)

Symbol(s)	: T : Toxic
R Phrase(s)	: R25 : Toxic if swallowed.
S Phrase(s)	: S36 : Wear suitable protective clothing. S37 : Wear suitable gloves. S39 : Wear 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	: H301 : Toxic if swallowed.
Precautionary statements	
• Prevention	: P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product.
• Response	: P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.
• 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.
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#### 3. Composition/information on ingredients

Substance / Preparation	: S-BENZYLTHIURONIUM CHLORIDE 98% CAS No :538-28-3 Substance.
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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	: Assure fresh air breathing. Allow the victim to rest.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

## MATERIAL SAFETY DATA SHEET (MSDS)

### S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)

#### 4. First aid measures (continued)

<b>Eye contact</b>	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
<b>Ingestion</b>	: Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

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

<b>Symptoms relating to use</b>	: Swallowing a small quantity of this material will result in serious health hazard.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>General information</b>	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Surrounding fires</b>	: Use water spray or fog for cooling exposed containers.

##### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	: Under fire conditions, hazardous fumes will be present.
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##### 5.3. Advice for fire-fighters

<b>Protection against fire</b>	: Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Special procedures</b>	: 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

<b>For emergency responders</b>	: Equip cleanup crew with proper protection. Ventilate area.
<b>For non-emergency personnel</b>	: Evacuate unnecessary personnel.

##### 6.2. Environmental precautions

## MATERIAL SAFETY DATA SHEET (MSDS)

### S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)

#### 6. Accidental release measures (continued)

**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** : 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** : Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**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 - 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.
- **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.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)**
**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C	: Solid.
Colour	: Colorless
Odour	: N/A
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 177 - 179 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°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/cm <sup>3</sup> ]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /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**

## MATERIAL SAFETY DATA SHEET (MSDS)

### S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)

#### 10. Stability and reactivity (continued)

**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

###### **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** : Toxic if swallowed.

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

**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.

## MATERIAL SAFETY DATA SHEET (MSDS)

### S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)

#### 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.  
 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 : TOXIC SOLID, ORGANIC, N.O.S.  
 UN N° : 2811  
 H.I. nr : 60



**MATERIAL SAFETY DATA SHEET (MSDS)**  
**S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)**

**ADR - Class** : 6.1  
**Labelling - Transport** : 6.1 : Toxic substances.



<b>ADR - Classification code</b>	: T2 T2
<b>ADR - Group</b>	: II
<b>ADR - Packing instructions</b>	: P002
<b>ADR - Limited Quantity</b>	: 500 G
<b>ADR - Tunnel code</b>	: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.



<b>Proper shipping name</b>	: TOXIC SOLID, ORGANIC, N.O.S.
<b>UN N°</b>	: 2811
<b>IMO-IMDG - Class or division</b>	: 6.1 : Toxic substances.
<b>IMO-IMDG - Packing group</b>	: II
<b>IMO- IMDG - Packing instructions</b>	: P002
<b>IMO-IMDG - Limited quantities</b>	: 500 g
<b>IMO-IMDG - Marine pollution</b>	: Yes
<b>EMS-Nr</b>	: F-A S-A

<b>Proper shipping name</b>	: TOXIC SOLID, ORGANIC, N.O.S.
<b>UN N°</b>	: 2811
<b>IATA - Class or division</b>	: 6.1 : Toxic substances.
<b>IATA - Packing group</b>	: II
<b>IATA - Passenger and Cargo Aircraft</b>	: ALLOWED
<b>- Passenger and Cargo - Packing instruction</b>	: 669
<b>- Passenger and Cargo - Maximum Quantity/Packing</b>	: 25 kg
<b>IATA - Cargo only</b>	: ALLOWED



**MATERIAL SAFETY DATA SHEET (MSDS)**  
**S-BENZYLTHIURONIUM CHLORIDE (FOR SYNTHESIS)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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