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## MATERIAL SAFETY DATA SHEET (MSDS)

### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

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

##### 1.1. Product identifier

Trade name : CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

Product code : C0065300500

Identification of the product : CETYL PYRIDINIUM CHLORIDE 98% (for Synthesis (C US  
CAS No :6004-24-6

##### 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 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+; R26  
 T; R25  
 C; R34  
 Xi; R36/37/38  
 N; R50-53

##### 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  
 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319  
 Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330  
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP :  
 Aquatic Acute 1) H400

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### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

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

Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP : Aquatic Chronic 1) H410

#### 2.2. Label elements

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

##### Symbol(s)



##### Symbol(s)

: T+ : Very toxic  
 N : Dangerous for the environment  
 C : Corrosive

##### R Phrase(s)

: R25 : Toxic if swallowed.  
 R26 : Very toxic by inhalation.  
 R34 : Causes burns.  
 R36/37/38 : Irritating to eyes, respiratory system and skin.  
 R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### S Phrase(s)

: 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  
 S36/37 : Wear suitable protective clothing and gloves.  
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

##### Labelling Regulation EC 1272/2008 (CLP)

##### Hazard pictograms



##### Signal words

: Danger

##### Hazard statements

: H330 : Fatal if inhaled.  
 H314 : Causes severe skin burns and eye damage.  
 H301 : Toxic if swallowed.  
 H319 : Causes serious eye irritation.  
 H335 : May cause respiratory irritation.  
 H410 : Very toxic to aquatic life with long lasting effects.

##### Precautionary statements

##### • Prevention

: P284: Wear respiratory protection.  
 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.  
 P273: Avoid release to the environment.  
 P264: Wash thoroughly after handling.

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### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

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

- Response** : P270: Do not eat, drink or smoke when using this product.  
 : P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
 P391: Collect spillage.  
 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.  
 P337+P313: If eye irritation persists: Get medical advice/attention.
- 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** : CETYL PYRIDINIUM CHLORIDE 98% (for Synthesis (C US  
 CAS No :6004-24-6  
 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 is urgent (see on this label). Call a POISON CENTER or doctor if you feel unwell. Immediately call a POISON CENTER or doctor.
- 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** : Get medical advice. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : 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

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### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

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

**Symptoms relating to use** : Fatal if inhaled.  
 Causes severe skin burns and eye damage.  
 Swallowing a small quantity of this material will result in serious health hazard.  
 Causes serious eye 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.  
 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.  
 Avoid release to the environment.

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### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

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

##### 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** : Use only outdoors or in a well-ventilated area. Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. 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 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** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear respiratory protection.
- **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

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### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

#### 8. Exposure controls/personal protection (continued)

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.
Colour	: White powder
Odour	: Characteristic odour
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 83 - 86 °C
Decomposition point [°C]	: 234°C
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]	: Soluble
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 5 - 5.4 at 20 °C
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.

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### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

#### 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.  
Thermal decomposition generates : Corrosive vapours.

#### 11. Toxicological information

##### 11.1. Information on toxicological effects

##### Acute toxicity

- Inhalation : Fatal if inhaled.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Toxic if swallowed.

##### Corrosion

: Causes severe skin burns and eye damage.

##### Irritation

: Causes serious eye 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.



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### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

#### 11. Toxicological information (continued)

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

#### 12. Ecological information

##### 12.1. Toxicity

**Toxicity information** : Very toxic to aquatic life with long lasting effects.

##### 12.2. Persistence - degradability

**Persistence - degradability** : May cause long-term adverse effects in the environment.

##### 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)



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### CETYL PYRIDINIUM CHLORIDE (FOR SYNTHESIS)

#### 14. Transport information (continued)

Proper shipping name : TOXIC SOLID, ORGANIC, N.O.S.  
 UN N° : 2811  
 H.I. nr : 60  
 ADR - Class : 6.1  
 Labelling - Transport : 6.1 : Toxic substances.



ADR - Classification code : T2  
 ADR - Group : II  
 ADR - Packing instructions : P002  
 ADR - Limited Quantity : 500 G  
 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 : TOXIC SOLID, ORGANIC, N.O.S.  
 UN N° : 2811  
 IMO-IMDG - Class or division : 6.1 : Toxic substances.  
 IMO-IMDG - Packing group : II  
 IMO-IMDG - Packing instructions : P002  
 IMO-IMDG - Limited quantities : 500 g  
 IMO-IMDG - Marine pollution : Yes  
 EMS-Nr : F-A S-A

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

Proper shipping name : TOXIC SOLID, ORGANIC, N.O.S.  
 UN N° : 2811  
 IATA - Class or division : 6.1 : Toxic substances.  
 IATA - Packing group : II  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
 - Passenger and Cargo - Packing instruction : 669

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**CETYL PYRIDINIUM 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.

**End of document**