

# MATERIAL SAFETY DATA SHEET

## 1. Identification

Product Name: Denatonium Saccharide  
CAS#: 90823-38-4  
Identified uses: Automotive Chemicals, Cosmetics and Personal Care, Daily Necessities, Agricultural Chemicals, Paints and Coatings, Other.  
Emergency telephone + 91-7296866111

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## 2. Hazard(s) identification

### 2.1 Classification of the substance or Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Toxicity Oral  
Category 4 - (H302)

STOT - Single Exposure  
Category 3 - (H335)

### 2.2 Label elements



Signal Word – Warning

#### **Hazard Statement**

**H302** - Harmful if swallowed

**H335** - May cause respiratory tract irritation

#### **Precautionary Statements - EU (§28, 1272/2008)**

##### **Prevention**

**P264** Wash hands, face and clothing thoroughly after handling.

**P261** Avoid breathing dust/fume/gas/mist/vapors/spray.

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

**P270** Do not eat, drink or smoke while using this product.

##### **Response**

**P304+P340 IF INHALED:** Remove person to fresh air and keep comfortable for breathing.

**P302+P312 IF SWALLOWED:** Call a POISON CENTRE/doctor or physician if you feel unwell

**P330 :** Rinse mouth.

##### **Storage**

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

**P405** Store locked up.

##### **Disposal**

**P501** Dispose of contents/container to an approved waste disposal plant.

### 2.3 Other Hazards

No other information available.

## 3. Composition/Information on Ingredients

| Chemical name         | CAS-No     | EC No | W/ W % | EU - GHS Substance Classification (REGULATION (EC) No 1272/2008) | REACH No.         |
|-----------------------|------------|-------|--------|--|-------------------|
| Denatonium Saccharide | 90823-38-4 | -     | <=100  | Acute Tox. 4; H(302)   | no data available |

## 4. First-aid measures

### 4.1 Description of first-aid measures

**General advice** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If in contact with eyes, get immediate medical attention.

**Skin contact** Wash off with soap and plenty of water for at least 15 minutes. Clean contaminated clothing and shoes before reuse or discard if they cannot be thoroughly cleaned. If skin irritation or rash occurs, get medical attention.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth. Do not induce vomiting unless told by physician. If vomiting occurs ensure patient can breathe. Seek medical attention, if you feel unwell.

**Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. Seek medical attention, if you feel unwell.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in labeling see section (2) and/or in section 11.

### Indication of immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Water, alcohol-resistant foam, dry chemical or carbon dioxide

**Unsuitable extinguishing media** High pressure water jets may scatter and spread the fire.

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

**Special Hazard** Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous combustion products** Carbon oxides, Nitrogen oxides, Sulphur oxides

### **5.3 Advice for Firefighters**

Wear self-contained breathing apparatus and protective suit. In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of involved material.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Do not eat, drink or smoke while using this product. Avoid contact with skin and eyes. Avoid breathing vapor/mist. Keep unnecessary people away. Isolate area. Keep out of low areas. Vapors can accumulate in low area. Ventilate closed spaces before entering.

### **6.2 Environmental Precautions**

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

### **6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Follow all label instructions regarding spill clean-up and residual disposal methods.

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

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## **7. Handling and storage**

### **7.1 Precautions for Safe Handling**

#### **Handling**

Avoid contact with skin and eyes. Avoid breathing vapor or mist. Ensure adequate ventilation. Wash thoroughly after handling. Avoid release to environment. Empty containers may contain hazardous residues. Do not reuse empty container.

#### **Hygiene measures**

Wash thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Handle in accordance with good industrial hygiene and safety practice.

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

Store in accordance with local regulation. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible material. Do not store in unlabeled containers. Keep out of reach of children. Do not store material near food, feed or drinking water. Use appropriate containment to avoid environmental contamination.

Incompatible material: Strong oxidizing agents

### **7.3 Specific end uses**

Laboratory chemical, Industrial chemical

## 8. Exposure controls / personal protection

### 8.1 Control Parameters

#### Exposure Limits

**Derived No Effect level (DNEL)** No information available

**Predicted No Effect Concentration** No information available

### 8.2 Exposure Controls

Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal protective equipment

#### Eye protection

Avoid contact with eyes. Where there is potential for eye contact have eye flushing equipment available. Tightly fitting safety goggles. Face-shield.

#### Skin protection

Wear protective gloves/clothing. Long-sleeved clothing.

#### Hand protection

Wear suitable protective glove/clothing. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Local authorities should be advised if significant spillage cannot be contained.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                       |                            |
|-----------------------|----------------------------|
| <b>Appearance</b>     | Solid (Crystalline powder) |
| <b>Physical state</b> | Solid                      |
| <b>Odor</b>           | No information available   |
| <b>Color</b>          | No information available   |
| <b>Odor threshold</b> | No information available   |

| <u>Property</u>                               | <u>VALUES</u>            | <u>Remarks/ Method</u> |
|---|--------------------------|------------------------|
| <b>pH</b>                                     | No information available |                        |
| <b>Melting point/freezing point</b>           | 176°C                    |                        |
| <b>Boiling Point/Range</b>                    | No information available |                        |
| <b>Flash Point</b>                            | No information available |                        |
| <b>Flammability (solid, gas)</b>              | No information available |                        |
| <b>Upper/lower flammability or</b>            | No information available |                        |
| <b>Explosive limit</b>                        | No information available |                        |
| <b>Density</b>                                | No information available |                        |
| <b>Vapor density</b>                          | No information available |                        |
| <b>Vapor pressure</b>                         | No information available |                        |
| <b>Water solubility</b>                       | No information available |                        |
| <b>Partition coefficient: n-octanol/water</b> | No information available |                        |
| <b>Autoignition temperature</b>               | No information available |                        |
| <b>Decomposition temperature</b>              | No information available |                        |

|                             |                          |
|-----------------------------|--------------------------|
| <b>Viscosity</b>            | No information available |
| <b>Oxidizing properties</b> | No information available |
| <b>Explosive properties</b> | No information available |
| <b>Surface Tension</b>      | No information available |

## 10. Stability and reactivity

### 10.1 Reactivity

No information available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reaction

No dangerous reaction known

### 10.4 Conditions to avoid

Excess heat, incompatible material

### 10.5 Incompatible Materials

Strong oxidizing agents, Bases, acids

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating/toxic gases and vapors.

Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides, Sulphur oxides

## 11. Toxicological information

### 11.1 Information on Toxicological Effects

LD50 ORAL = 1390 mg/kg (rabbit)

#### **Local effect**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Based on available information, classification criteria are not met. |
| <b>Eye contact</b>  | May cause slight eye irritation                                      |
| <b>Skin contact</b> | May cause skin irritation  |
| <b>Ingestion</b>    | Harmful if swallowed   |

#### Chronic toxicity

|                                  |  |
|----------------------------------|--|
| <b>Skin Corrosion/Irritation</b> | May cause mild skin irritation         |
| <b>Eye damage/irritation</b>     | May cause slight eye irritation        |
| <b>Sensitization</b>             | No additional information available    |
| <b>Mutagenic effects</b>         | No additional information available    |
| <b>Carcinogenic effects</b>      | No additional information available    |
| <b>Reproductive effects</b>      | No additional information available    |
| <b>STOT - Single Exposure</b>    | May cause respiratory tract irritation |
| <b>STOT - Repeated exposure</b>  | No additional information available    |

Aspiration hazard

No additional information available

## 12. Ecological information

### 12.1 Ecotoxicity

No information available

### 12.2 Persistence and Degradability

No information available

### 12.3 Bio accumulative Potential

No information available

### 12.4 Mobility in Soil

No information available.

### 12.5 Results of PBT and vPvB Assessment

No information available.

### 12.6 Other Adverse Effects

No information available.

## 13. Disposal considerations

### 13.1 Waste Treatment Methods

**Waste from Residues / Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Empty container should be taken for local recycling, recovery or waste disposal. Do not re-use container. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

**IMDG/IMO**  
**IATA/ICAO**

Not Regulated

Not Regulated

## 15. Regulatory information

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### International Inventories

USINV

Listed

TSCA

Listed

EINECS/ELINCS

-

DSL/NDSL

Listed

|              |        |
|--------------|--------|
| <b>PICCS</b> | -      |
| <b>ENCS</b>  | -      |
| <b>China</b> | Listed |
| <b>AICS</b>  | -      |
| <b>KECL</b>  | -      |

**Legend**

- : Not Listed/Exempted

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ECHA** - European chemical agency

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out.

## Section 16: Other Information

**Full text of H-Statements referred to under sections 2 and 3**

**H302** Harmful if swallowed

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**DISCLAIMER:**

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