SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

SUXAMETHONIUM CHLORIDE

Details of the supplier of the safety data sheet:
ASTRAZENECA PTY LTD
PO Box 131
Alma Road, North Ryde
NSW 2113
AUSTRALIA
+61 2 9978 3500

Emergency Telephone
+44 (0) 1235 239 670

SafetyDataSheets.AlderleyPark@astrazeneca.com

Alternative Names
2,2'-succinylidioxybis(ethyltrimethylammonium) dichloride dihydrate

CAS No.: 6101-15-1
Use: Pharmaceutical active: Anticholinergic neuro muscular blocking agent

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification UN GHS</th>
<th>Hazard class</th>
<th>Category</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>3</td>
<td></td>
<td>H301</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td># Refer to Section 16 'Other Information'</td>
</tr>
</tbody>
</table>

# Refer to Section 16 'Other Information'
Label elements

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger</td>
<td>H301: Toxic if swallowed.</td>
</tr>
</tbody>
</table>

Precautionary statements

| P264         | Wash hands thoroughly after handling. |
| P301 + P310  | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P501         | Dispose of contents/container to approved incineration plant/approved waste treatment plant. |

Other hazards
May cause skin and eye irritation. May cause muscle twitching, stiffness and pain, ocular hypotension, cardiovascular effects including cardiac arrest and respiratory depression.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance:

<table>
<thead>
<tr>
<th>Components</th>
<th>%</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suxamethonium Chloride Dihydrate</td>
<td></td>
<td>6101-15-1</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

Description of first aid measures

- **Inhalation**: Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.
- **Skin Contact**: Remove contaminated clothing. After contact with skin, wash immediately with plenty of water. If symptoms (irritation or blistering) occur obtain medical attention.
- **Eye Contact**: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.
- **Ingestion**: Provided the patient is conscious, wash out mouth with water and give 200-300 ml of water to drink. Do NOT induce vomiting as a First-Aid measure. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed
Refer to sections 2 and 11

Indication of any immediate medical attention and special treatment needed
Symptomatic treatment and supportive therapy as indicated. For further information consult the prescribing information.

5. FIRE-FIGHTING MEASURES

- **Extinguishing Media (suitable)**: water spray, foam, dry powder or CO2.
- **Extinguishing Media (unsuitable)**: -
- **Special hazards arising from the substance or mixture**: If involved in a fire, it may emit noxious and toxic fumes.
- **Special protective actions for fire-fighters**: A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ensure full personal protection (including respiratory protection) during removal of spillages. See Section 8.

Environmental Precautions: Prevent entry into drains, sewers or watercourses.

Methods and material for containment and cleaning up: Avoid dust generation. Moisten spillages with water. Transfer to a container for disposal. Wash the spillage area with water.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation. See Section 8. The material can form flammable dust clouds in air. Dust clouds may be extremely sensitive to ignition by electrostatic discharge and other ignition sources. Ensure good earthing of equipment and personnel.

Conditions for safe storage, including any incompatibilities: This material is hygroscopic. Keep container tightly closed and dry. Keep in a cool place. Protect from light.

Specific end use(s): Not applicable, refer to Section 1

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limit Value

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Control parameters</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Occupational Exposure Limit Assigned.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Exposure Controls

Atmospheric levels should be controlled using the principles of good occupational hygiene practice as specified in the workplace risk assessment.

Occupational exposure controls

Decisions about whether the use of personal protective equipment (PPE) is appropriate as part of the control strategy should be based on the workplace risk assessment and should take account of local legislative requirements for selection and use. There are multiple factors that will affect the specific requirements such as amount and concentration of the material, duration of exposure, frequency of exposure, external environmental conditions, the task, the user etc.

The information below should not be used in isolation and should be considered in the context of the workplace risk assessment on a case by case basis.

Respiratory protection

Use a negative pressure air purifying respirator (half face mask) with filter class P3 if the risk assessment does not support the selection of other protection.

Skin protection

Use protective clothing to protect against direct contact with the substance if the risk assessment does not support the selection of other protection. Use impervious protective gloves to protect against direct contact with the substance. If the substance is dissolved or wetted use a glove material that is resistant to the solvent/liquid.

Eye protection

Use safety glasses to protect against direct contact with the substance if the risk assessment does not support the selection of other protection.
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form : solid  
Colour : white to almost white  
Molecular Weight : 397.3 g/mol  
pH : 4 - 5 (0.5% aqueous solution)  
Melting Point : 156 - 163 °C  
Solubility (Water) : Freely soluble  
Solubility (Other) : slightly soluble in:, ethanol practically insoluble in:, diethylether

Other information

No other data available

10. STABILITY AND REACTIVITY

Reactivity : No known reactivity hazard under normal conditions.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : None known.  
Conditions to avoid : Stable under normal conditions.  
Incompatible materials : None known.  
Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Inhalation : Adverse effects similar to ingestion may occur following exposure to the dust.

Skin Contact : May cause skin irritation.

Eye Contact : May cause eye irritation.

Ingestion : Toxic if swallowed.  
Oral Median Lethal Dose (mouse) 125mg/kg.  
May cause muscle twitching, stiffness and pain, ocular hypotension,  
cardiovascular effects including cardiac arrest and respiratory depression.

Specific Target Organ Toxicity (STOT) : Single exposure  
No information available.

Repeated exposure  
The repeated and long-term exposure effects of this substance are not known.

Carcinogenicity : No information available.

Mutagenicity : No information available.

Reproductive toxicity : No information available.

12. ECOLOGICAL INFORMATION

Toxicity : No information available.
Effect on Effluent Treatment : No information available.

Persistence and degradability : No degradation data available. The substance is assumed not to be rapidly degradable.

Bioaccumulative potential : No information available.

Mobility in soil : No information available.

Other adverse effects : No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods : Disposal should be in accordance with local, state or national legislation. This material and/or its container must be disposed of as hazardous waste. Waste, even small quantities, should never be poured down drains, sewers or water courses. Normal waste disposal is via incineration operated by an accredited disposal contractor.

Contaminated Packaging : Empty container will retain residue. Observe all hazard precautions.

14. TRANSPORT INFORMATION

RESTRICTED FOR TRANSPORT

ICAO/IATA
UN No. : 2811
Proper Shipping Name : Toxic solid, organic, n.o.s. (SUXAMETHONIUM CHLORIDE)
Class : 6.1
Packing Group : III

IMO/IMDG
UN No. : 2811
Proper Shipping Name : TOXIC SOLID, ORGANIC, N.O.S. (SUXAMETHONIUM CHLORIDE)
Class : 6.1
Packing Group : III
Marine pollutant : Not classified as a Marine Pollutant

ADR
UN No. : 2811
Proper Shipping Name : TOXIC SOLID, ORGANIC, N.O.S. (SUXAMETHONIUM CHLORIDE)
Class : 6.1
Label(s) : 6.1
Packing Group : III
15. REGULATORY INFORMATION

In order to comply with legal duties it is necessary to consult local and national legislation.

16. OTHER INFORMATION

Hazard statements : H301 : Toxic if swallowed.

The following sections contain revisions or new statements : 

The Safety Data Sheet has been updated to adhere to Globally Harmonized System of Classification and Labelling of Chemicals (GHS)., This update affects most Sections of the Safety Data Sheet.

GLOSSARY

COM : In-house occupational exposure limit
LTEL : Long-term exposure limit (8 hour TWA (time-weighted average))
STEL : Short-term exposure limit (15-minute TWA (time-weighted average))
TLV : Threshold Limit Value (ACGIH)
TLV-C : Threshold Limit Value - Ceiling limit (ACGIH)
HYG : An in-house analytical method for occupational exposure monitoring is available
Sk : Can be absorbed through skin, thus contributing to systemic effects
Sen : Capable of causing respiratory sensitisation

This Glossary is applicable to Substances for which Hazardous Ingredients/Occupational Exposure Limits are assigned.