1 - Product and Company Information

Product Name           SUCCINYLCHOLINE CHLORIDE DIHYDRATE
Product Number         85980
Company                Sigma-Aldrich Pty, Ltd
                       Unit 2, 14 Anella Avenue
                       Castle Hill NSW 1765
                       Australia
Technical Phone #      +61 2 9841 0555
Fax                    +61 2 9841 0500
Emergency Phone #      +61 2 9841 0566

2 - Composition/Information on Ingredients

Product Name          SUCCINYLCHOLINE CHLORIDE DIHYDRATE*
CAS #                 71-27-2
EC no                 200-747-4
Annex I Index Number  None

Formula               C14H30N2O4.2Cl
Molecular Weight      397.3 AMU
Synonyms             Anectine * Anectine chloride *
                       Bis(2-dimethylaminoethyl)succinate
                       bis(methochloride) *
                       Bis(succinyl dichlorocholine) *
                       Chlorsuccinylcholin (German) * Chlorure de
                       succinilcoline (French) * Choline succinate
                       dichloride * Choline, succinyl-, dichloride *
                       Cloruro di succinilcolina (Italian) *
                       Diacetylcholine chloride * Diacetylcholine
                       dichloride * 2-Dimethylaminoethyl succinate
                       dimethochloride * Ethanaminium,
                       2,2'-(1,4-dioxo-1,4-butanediyl)bis(oxy))bis(N,N,
                       N-trimethyl-, dichloride *
                       (2-Hydroxyethyl)trimethylammonium chloride
                       succinate * Lysthenon * Lysthenone * Midarine *
                       Myoplegine * Pantolax * Quelicin chloride *
                       Scoline * Scoline chloride * Skolin * Succicuran
                       * Succinic acid, bis(beta-dimethylaminoethyl)
                       ester, dimethochloride * Succinic acid, diester
                       with choline chloride * Succinylcholine
                       chloride * Succinyl-asta * Succinyl bischoline
                       chloride * Succinylbischoline dichloride *
                       Succinylcholine chloride * Succinylcholine

3 - Hazards Identification

4 - First Aid Measures
AFTER INHALATION
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA
Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS
Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING
Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing.

STORAGE
Conditions of Storage: Keep tightly closed. Store in a cool dry place.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS
Use only in a chemical fume hood. Safety shower and eye bath.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT
Special Protective Measures: Wear appropriate government approved
9 - Physical and Chemical Properties

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<th>Value</th>
<th>At Temperature or Pressure</th>
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<td>Solubility</td>
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10 - Stability and Reactivity

STABILITY
Stable: Stable.
Conditions of Instability: Light.

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: GA2360000

ACUTE TOXICITY

LD50 Intraperitoneal Mouse
1250 UG/KG

LD50 Intravenous Mouse
430 UG/KG
Behavioral: Altered sleep time (including change in righting reflex). Lungs, Thorax, or Respiration: Cyanosis.

LD50
Intravenous
Rabbit
240 UG/KG

LD50
Intravenous
Chicken
300 UG/KG

SIGNS AND SYMPTOMS OF EXPOSURE
Exposure may be implicated in the development of malignant hyperpyrexia in those with a genetic predisposition to the syndrome. Exposure can cause bradycardia, tachycardia, hypertension, hypotension, cardiac arrhythmias, cardiac arrest, and a profound and prolonged muscle relaxation resulting in respiratory depression.

ROUTE OF EXPOSURE
Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.
Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

TARGET ORGAN INFORMATION
Skeletal muscle.

CHRONIC EXPOSURE – MUTAGEN

Human
300 UG/CULTURE
Cell Type: leukocyte
Sister chromatid exchange

Mouse
2500 UG/KG
Parenteral
Sister chromatid exchange

12 - Ecological Information
No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
14 - Transport Information

RID/ADR
Non-hazardous for road transport.

IMDG
Non-hazardous for sea transport.

IATA
Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
S-PHRASES: 22 24/25
Do not breathe dust. Avoid contact with skin and eyes.

16 - Other Information

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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