



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
210	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chem	Section 1. Chemical Product and Company Identification Page Number: 1			
Common Name/ Trade Name	Succinylcholine chloride		Catalog Number(s).	S1864, S1692, S1696
			CAS#	6101-15-1(diihydrate); 71-27-2
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.		RTECS	GA2360000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248			TSCA 8(b) inventory: No products were found.
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Ethanaminium, 2,2'-[(1,4-Dioxo-1,4-butanediyl)bis(oxy))bis(N,N,N-trimethyl-dichloride, dihydrate; Quelcin Chloride dihydrate; Suxamethonium dichloride, dihydrate; (2-Hydroxyethyl)trimethylammonium chloride succinate, dihydrate; 2-Dimethylaminoethyl succinate dimethochloride; Anectine chloride, dihydrate; Bis(2-dimethylaminoethyl)succinate bis(methochloride), dihydrate; Bis (succinyldichlorocholine), dihydrate; Choline succinate dichloride dihydrate; Choline, succinyl-, dichloride dihydrate; Diacetylcholine chloride dihydrate; Diacetylcholine dichloride dihydrate ; Succinyl bischoline chloride, dihydrate; Suxamethonium chloride, dihydrate.			EMERGENCY (24hr) 800-424-9300
Chemical Name	Succinylcholine chloride, dihydrate			
<b>Chemical Family</b>	Not available.		CALL (310) 5	16-8000
Chemical Formula	C14-H30-Cl2-N2-O4.2H2O			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Succinylcholine chloride		71-27-2 (former CAS no. 6101-15-1)				100
Toxicological Data on Ingredients	Succinylcholine chl ORAL (LD50):	oride : Acute: 125 mg/kg	g [Mouse].			

Succinylcholine chloride	Suc	ciny	rlcho	line	chlc	ride
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#### Section 3. Hazards Identification

**Potential Acute Health Effects** 

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Severe over-exposure can result in death.

**Potential Chronic Health** 

**Serious Ingestion** 

Not available.

**Effects** 

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to the nervous system, liver, cardiovascular system, upper respiratory tract, eyes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Aid Measures		
<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
<b>Serious Inhalation</b>	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention.	
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.	

Section 5. Fire and Explosion Data			
Flammability of the Product	May be combustible at high temperature.		
<b>Auto-Ignition Temperature</b>	Not available.		
Flash Points	CLOSED CUP: Higher than 93.3°C (200°F).		
Flammable Limits	Not available.		
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), halogenated compounds.		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.		
Explosion Hazards in Presence of Various Substances	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
Special Remarks on Fire Hazards	As with most organic solids, fire is possible at elevated temperatures		
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.		

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Succinylcholine chloride		Page Number: 3
Section 6. Acc	idental Release Measures	
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.	
Large Spill	Poisonous solid.  Stop leak if without risk. Do not get water inside container. Do not touch spilled material reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed sources. Call for assistance on disposal.	. ,
Section 7. Had	ndling and Storage	
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containgest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical show the container or the label. Keep away from incompatibles such as alkalis.	J

Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 8°C (46.4°F). Refrigerate. Sensitive to light. Store in light-resistant containers.
Section 8. Exposure	Controls/Personal Protection
<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Exposure Limits</b>	Not available.

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid. (Solid crystalline powder.)	Odor	Odorless.
Molecular Weight	397.34 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	White.
<b>Boiling Point</b>	Not available.		
<b>Melting Point</b>	156°C (312.8°F) - 163 C		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
<b>Dispersion Properties</b>	See solubility in water, diethyl ether, acetone.		
Solubility	Easily soluble in cold water, hot water. Partially soluble in diethyl ether, acetone. Slightly soluble in ethanol, benzene		

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Section 10. Stability	and Reactivity Data	
Stability	The product is stable.	
Instability Temperature	Not available.	
<b>Conditions of Instability</b>	Excess heat, incompatible materials	
Incompatibility with various substances	Reactive with alkalis.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Strong bases and alkaline materials	
Special Remarks on Corrosivity	Not available.	

Section 11. Toxicolo	ogical Information
Routes of Entry	Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 125 mg/kg [Mouse].
<b>Chronic Effects on Humans</b>	May cause damage to the following organs: the nervous system, liver, cardiovascular system, upper respiratory tract, eyes.
Other Toxic Effects on Humans	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Dust may cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. Ingestion: Harmful if swallowed. May cause gastrointestinal tract irritation. May affect behavior/central nervous system/nervous system(rigidity, incoordination, muscle weakness), respiration(breathing difficulty, cyanosis), metabolism, cardiovascular system, peripheral nervous system (peripheral nerve and sensation). Other symptoms may include hyperthemia, increased intraocular pressure).

Section 12. Ecologic	Section 12. Ecological Information		
Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.		
Toxicity of the Products of Biodegradation	The products of degradation are as toxic as the product itself.		
Special Remarks on the Products of Biodegradation	Not available.		

Polymerization

Will not occur.

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# Section 13. Disposal Considerations

Vaste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information		
DOT Classification	CLASS 6.1: Poisonous material.	
Identification	: Toxic solid, organic, n.o.s (Succinylcholine chloride) UNNA: 2811 PG: III	
Special Provisions for Transport	Not available.	
DOT (Pictograms)	POISON	

# Section 15. Other Regulatory Information and Pictograms

No products were found.

Federal and State Regulations California prop. 65: This product contains the following ingredients for which the State of California has found Proposition 65 to cause cancer which would require a warning under the statute: No products were found. Warnings California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found. **Other Regulations** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. **Other Classifications** WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). DSCL (EEC) R25- Toxic if swallowed. S7- Keep container tightly closed. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	<b>(E)</b>

**National Fire Protection Association (U.S.A.)** 

Health



S46- If swallowed, seek medical advice immediately and show this container or label.

WHMIS (Canada) (Pictograms)



**DSCL** (Europe) (Pictograms)



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Succinylcholine chloride		Page Number: 6
TDG (Canada) (Pictograms)		

ADR (Europe) (Pictograms)



**Protective Equipment** 



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

Section 16. Other Information		
MSDS Code	S5053	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/14/2006.

#### CALL (310) 516-8000

#### **Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.