

MATERIAL SAFETY DATA SHEET

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Version 1.4

Section 1 - Product and Company Information

Product Name	DEOXYCHOLIC ACID SODIUM
Product Number	D6750
Brand	SIAL
Company	Sigma-Aldrich
Street Address	3050 Spruce Street
City, State, Zip, Country	SAINT LOUIS MO 63103 US
Technical Phone:	314 771 5765
Emergency Phone:	414 273 3850 Ext. 5996
Fax:	800 325 5052

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
DEOXYCHOLIC ACID SODIUM SALT	302-95-4	No
Formula	C24H39NaO4	
Synonyms	Cholan-24-oic acid, 3,12-dihydroxy-, monosodium salt, (3-alpha,5-beta,12-alpha)- (9CI) * Deoxycholate sodium * Deoxycholic acid sodium salt * Desoxycholate sodium * Dihydroxy 3-12 cholinate de Na (French) * 3,12-Dihydroxy-cholan-24-oic acid monosodium salt, (3-alpha,5-beta,12-alpha)- (9CI) * 3-alpha,12-alpha-Dihydroxy-5-beta-cholan-24-oic acid sodium salt * Natrium-3-alpha,12-alpha-dihydroxycholanat (German) * Na-Desoxychololat (German) * Sodium deoxycholate * Sodium 7-deoxycholate * Sodium deoxycholic acid * Sodium desoxycholate	
RTECS Number:	FZ2250000	

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful.

Harmful if swallowed. Irritating to respiratory system.

HMIS RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE

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

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

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

EYE EXPOSURE

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.

Section 5 - Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

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.

Section 7 - Handling and Storage

HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Government approved respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance	Physical State: Solid	
Property	Value	At Temperature or Pressure
Molecular Weight	414.6 AMU	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

N/A = not available

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Sodium oxides Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
Ingestion: Harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

TOXICITY DATA

Oral

Rat

1370 mg/kg

LD50

Remarks: Behavioral:Ataxia. Behavioral:Altered sleep time (including change in righting reflex). Lungs, Thorax, or Respiration:Other changes.

Intraperitoneal

Rat

123 MG/KG

LD50

Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Ataxia. Lungs, Thorax, or Respiration:Other changes.

Subcutaneous

Rat

2430 MG/KG

LD50

Remarks: Lungs, Thorax, or Respiration:Other changes. Behavioral:Ataxia. Behavioral:Altered sleep time (including change in righting reflex).

Intravenous

Rat

150 MG/KG

LD50

Oral

Mouse

1050 mg/kg

LD50

Remarks: Gastrointestinal:Ulceration or bleeding from small intestine. Gastrointestinal:Ulceration or bleeding from stomach. Behavioral:Somnolence (general depressed activity).

Intraperitoneal

Mouse

36 MG/KG

LD50

Remarks: Gastrointestinal:Hypermotility, diarrhea. Lungs, Thorax, or Respiration:Other changes. Behavioral:Excitement.

Subcutaneous

Mouse
815 MG/KG
LD50

Remarks: Lungs, Thorax, or Respiration:Other changes.
Behavioral:Ataxia. Behavioral:Altered sleep time (including
change in righting reflex).

Intravenous
Mouse
107 MG/KG
LD50

CHRONIC EXPOSURE - MUTAGEN

Species: Human Human
Dose: 25 MG/L 25 MG/L
Cell Type: fibroblast fibroblast
Mutation test: Unscheduled DNA synthesis Unscheduled DNA
synthesis

Species: Human Human
Dose: 100 MG/L 100 MG/L
Cell Type: lymphocyte lymphocyte
Mutation test: DNA inhibition DNA inhibition

Species: Rat Rat
Route: Rectal Rectal
Dose: 10 UMOL/KG 10 UMOL/KG
Mutation test: Unscheduled DNA synthesis Unscheduled DNA
synthesis

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat Rat
Dose: 1400 MG/KG 1400 MG/KG
Route of Application: Intraperitoneal Intraperitoneal
Exposure Time: (28D MALE) (28D MALE)
Result: Paternal Effects: Prostate, seminal vessicle, Cowper's
gland, accessory glands. Paternal Effects: Prostate, seminal
vessicle, Cowper's gland, accessory glands.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose
of this material. Dissolve or mix the material with a combustibile
solvent and burn in a chemical incinerator equipped with an
afterburner and scrubber. Observe all federal, state, and local
environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None
Non-Hazardous for Transport: This substance is
considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 22-37

Risk Statements: Harmful if swallowed. Irritating to respiratory system.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful.

Risk Statements: Harmful if swallowed. Irritating to respiratory system.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

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.