

SAFETY DATA SHEET

Creation Date 30-Apr-2012

Revision Date 27-Mar-2024

Revision Number 3

1. Identification

Product Name

Chenodeoxycholic acid

Cat No. : J60364

CAS No Synonyms

Recommended Use Uses advised against 3alpha,7alpha-Dihydroxy-5beta-cholanic acid Laboratory chemicals.

st Food, drug, pesticide or biocidal product use.

474-25-9

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation

Category 2 Category 2

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)____

WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Chenodiol	474-25-9	>95

	4. First-aid measures
General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	Not applicable

Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A					
	6. Accidental rel	ease measures						
Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid of formation								
Environmental Precautions	formation. Should not be released into the environment. See Section 12 for additional Ecological Information.							
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Avoid dust formation. Use spark-proof tools and explosion-proof equipment.								
	7. Handling a	and storage						
Handling		quipment/face protection. Ensur- lothing. Avoid ingestion and inh						
Storage.	Keep containers tightly clos Materials. Strong oxidizing	ed in a dry, cool and well-ventila agents.	ated place. Incompatible					
8. E		personal protection						
Exposure Guidelines		ain any hazardous materials with ion specific regulatory bodies.	n occupational exposure					
Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eye and safety showers are close to the workstation location.								
Personal Protective Equipment								
Eye/face Protection	Tight sealing safety goggles	š.						
Skin and body protection	Wear appropriate protective	e gloves and clothing to prevent	skin exposure.					
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standa EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.							
Recommended Filter type:	Particulates filter conformin	g to EN 143.						
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.							

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН . Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight**

Powder Solid White No information available No information available No information available 162 - 168 °C / 323.6 - 334.4 °F No information available No information available Not applicable No information available No data available No data available No information available Not applicable No information available Insoluble in water No data available Not applicable No information available

10. Stability and reactivity

Not applicable

C24 H40 O4

392.57

Reactive Hazard	None known, based on information available				
Stability	Stable under normal conditions.				
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.				
Incompatible Materials	Strong oxidizing agents				
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)					
Hazardous Polymerization	Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.				

11. Toxicological information

Acute Toxicity

Product Information

Component Information								
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation					
Chenodiol	LD50 = 4 g/kg (Rat)	Not listed	Not listed					
Toxicologically Synergistic Products Delayed and immediate effects	c No information available fects as well as chronic effects from short and long-term exposure							
Irritation	No information available	No information available						
Sensitization	No information available	No information available						
Carcinogenicity	The table below indicates wh	The table below indicates whether each agency has listed any ingredient as a carcinoge						

0	040.04	1450	NTD	400111	00114	Marilaa			
Component Chenodiol	CAS No 474-25-9	IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed			
Mutagenic Effects	474 20 0	No information ava		Not listed	Not listed				
Reproductive Effect	ts	No information available.							
Developmental Effe	cts	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single exposision STOT - repeated exposision of the second strength of the second st		None known None known							
Aspiration hazard		No information ava	ailable						
Symptoms / effects delayed	,both acute and	No information ava	ailable						
Endocrine Disrupto	r Information	No information ava	ailable						
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.							
		12. Ecol	ogical infor	mation					
Ecotoxicity Do not empty into dra	ains.								
Persistence and De	gradability	Persistence is unli	kely						
Bioaccumulation/ A	ccumulation	No information ava	ailable.						
Mobility		Is not likely mobile in the environment due its low water solubility.							
	Component				log Pow				
Chenodiol 3.05									
		13. Dispo	sal conside	erations					
Waste Disposal Met	thods	Chemical waste ge hazardous waste. national hazardous	Chemical waste g	enerators must als	o consult local, reg	gional, and			

14. Transport information					
DOT TDG IATA	Not regulated				
<u>TDG</u>	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Chenodiol	474-25-9	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Chenodiol	474-25-9	Х	-	207-481-8	Х	Х	Х	-	Х	KE-10810

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category			
Chenodiol	474-25-9	Developmental	-	Developmental			
U.S. State Right-to-Know Regulations	Not applica	able					
U.S. Department of Trans							
Reportable Quantity (RQ):		N					
DOT Marine Pollutant DOT Severe Marine Pollut		N					
DOT Severe Marine Polici	ant n						
U.S. Department of Home Security	eland This produ-	ct does not contain any DHS	chemicals.				
Other International Regu	lations						
Mexico - Grade	No informa	tion available					

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	J J.	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Chenodiol	474-25-9	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Chenodiol	474-25-9	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Chenodiol	474-25-9	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	30-Apr-2012 27-Mar-2024 27-Mar-2024 New emergency telephone response service provider.
Disclaimer	

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End of SDS