

Section 1: Identification

Common Name/Trade Name	URSODIOL USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Ursodeoxycholic Acid	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Not a hazardous substance or mixture.
Signal Word	None
Hazard Statement(s)	N/A
Pictogram(s)	N/A
Precautionary Statement(s)	N/A
Hazards Not Otherwise Classified	No data available
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients

Chemical Name	Ursodeoxycholic acid
Common Name	Usodiol
CAS Number	128-13-2
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	No data available.
If Inhaled	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
In Case of Skin Contact	In case of skin contact, immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
In Case of Eye Contact	In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
If Swallowed	If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
Most Important Symptoms and Effects	No data available.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing Media: A solid water stream may be inefficient.
Special Hazards Arising From the Substance/Mixture	No data available.
Special PPE and/or Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
Methods and Materials Used for Containment	Avoid release into the environment.
Cleanup Procedures	Transfer to a proper chemical waste container for disposal.

Section 7: Handling and Storage

Precautions for Safe Handling	Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling. Avoid breathing (dust, vapor, mist, gas). Avoid prolonged or repeated exposure.
Conditions for Safe Storage	Keep in tightly closed and light resistant containers, in a dry place.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No data available.
Appropriate Engineering Controls	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash thoroughly after handling. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
PPE - Eye/Face Protection	Safety glasses
PPE - Skin Protection	Compatible chemical-resistant gloves
PPE - Body Protection	Lab coat
PPE - Respiratory Protection	NIOSH approved respirator, as conditions warrant.

Section 9: Physical and Chemical Properties

Appearance	Physical States: Solid. A crystalline white powder.
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	No data available
Relative Density	No data available
Melting Point/Freezing Point	about 202C
Solubility	Insoluble in water. Soluble in ethanol.
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Partition Coefficient	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Hazardous Decomposition or byproducts: carbon dioxide, carbon monoxide. Hazardous Reactions will not occur.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Ursodeoxycholic Acid - Toxicity Data: Oral LD50 (rat): 10.00g/kg;
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	Ursodeoxycholic Acid - Investigated as a teratogen, mutagen, and reproductive effector. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Ursodeoxycholic Acid RTECS Number: FZ2000000
Carcinogenicity IARC	No
Carcinogenicity ACGIH	No data available.
Carcinogenicity NTP	No
Carcinogenicity OSHA	No
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
Persistence and Degradability	No data available
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose in accordance with local, state, and federal regulations.
Waste Treatment Methods Packaging	No data available
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: Regulatory Information

European Community Hazard Symbol codes No data available. European Community Risk and Safety Phrases S24/25 - Avoid contact with skin and eyes. S37/39 - Wear suitable gloves and eye/face protection. US EPA SARA Title III Hazardous Components (Chemical Name) CAS # Sec.302 (EHS) Sec.304 RQ Sec.313 (TRI) Sec.110 Ursodeoxycholic acid 128-13-2 No No No No US EPA CAA, CWA, TSCA Hazardous Components (Chemical Name) CAS # EPA CAA EPA CWA NPDES EPA TSCA HPV/LPV Ursodeoxycholic acid 128-13-2 HAP, ODC () No No

Section 16: Other Information

Additional Information	N/A
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