

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/15/2017 Revision date: 2/27/2023 Supersedes: 5/15/2017 Version: 2.0

| SECTION 1: Identification | |
|--|---|
| 1.1. Identification | |
| Product form Substance name CAS-No. Product code Formula | Substance GLYCOURSODEOXYCHOLIC ACID (GLYCINE-13C2, 99%; 15N, 98%) 64480-66-6 CNLM-10252 C24*C2H43*NO5 |
| 1.2. Recommended use and restrictions | on use |
| No additional information available | |
| 1.3. Supplier | |
| Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u> | |
| 1.4. Emergency telephone number | |
| Emergency number | : 1-703-741-5970 Chemtrec 1-800-424-9300 24 hours |
| SECTION 2: Hazard(s) identification | |
| 2.1. Classification of the substance or mi | ixture |
| GHS US classification Not classified | |
| 2.2. GHS Label elements, including preca | autionary statements |
| GHS US labeling No labeling applicable | |
| 2.3. Other hazards which do not result in | classification |
| No additional information available | |
| 2.4. Unknown acute toxicity (GHS US) | |

Not applicable

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| SECTION 3: Composition/Information on ingredients | | | | |
|---|---------------------|-----|-----------------------|--|
| 3.1. Substances | | | | |
| Name | Product identifier | % | GHS US classification | |
| GLYCOURSODEOXYCHOLIC ACID (GLYCINE-13C2, 99%; 15N, 98%) (Main constituent) | CAS-No.: 64480-66-6 | 100 | Not classified | |
| Full text of hazard classes and H-statements : see section 16 | 1 | | 1 | |

3.2. Mixtures

Not applicable

| SECTION 4: First-aid measures | |
|---|--|
| 4.1. Description of first aid measures | |
| First-aid measures general First-aid measures after inhalation | If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area. When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention. |
| First-aid measures after skin contact First-aid measures after eye contact | Wash with plenty of soap and water. Get immediate medical advice/attention. Rinse cautiously with water for several minutes. |
| First-aid measures after ingestion | Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. |
| 4.2. Most important symptoms and effect | ts (acute and delayed) |
| Potential Adverse human health effects and symptoms | : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. |
| Symptoms/effects after inhalation | : May be harmful if inhaled. May cause respiratory irritation. |
| Symptoms/effects after skin contact | : May be harmful in contact with skin. May cause moderate irritation. |
| Symptoms/effects after eye contact | : May cause eye irritation. |
| Symptoms/effects after ingestion | : May be harmful if swallowed. |
| 4.3. Immediate medical attention and spe | ecial treatment, if necessary |

No additional information available

| SECTION 5: Fire-fighting measures | | | |
|---|---|--|--|
| 5.1. Suitable (and unsuitable) extinguishing | j media | | |
| Suitable extinguishing media | : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). | | |
| 5.2. Specific hazards arising from the chemical | | | |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO2). Nitrogen oxides. | | |
| 5.3. Special protective equipment and precautions for fire-fighters | | | |
| Firefighting instructions | : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. | | |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment. | | |

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| SECTION 6: Accidental release measure | SECTION 6: Accidental release measures | | | |
| 6.1. Personal precautions, protective equipm | nent and emergency procedures | | | |
| 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders No additional information available | : Avoid breathing vapors, mist, gas. Avoid dust formation. | | | |
| 6.2. Environmental precautions | | | | |
| Prevent entry to sewers and public waters. Do not allo | w to enter drains or water courses. Avoid release to the environment. | | | |
| 6.3. Methods and material for containment a | nd cleaning up | | | |
| For containment Methods for cleaning up | Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. This material and its container must be disposed of in a safe way, and as per local legislation. | | | |
| 6.4. Reference to other sections | | | | |
| No additional information available | | | | |
| SECTION 7: Handling and storage | | | | |
| 7.1. Precautions for safe handling | | | | |
| Precautions for safe handling Hygiene measures | Provide adequate ventilation to minimize dust and/or vapor concentrations. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. | | | |
| 7.2. Conditions for safe storage, including a | ny incompatibilities | | | |
| Technical measures Storage conditions | Store in a well-ventilated place. Keep container tightly closed. Store at room temperature away from light and moisture. | | | |
| SECTION 8: Exposure controls/persona | I protection | | | |
| 8.1. Control parameters | | | | |
| GLYCOURSODEOXYCHOLIC ACID (GLYCIN | E-13C2, 99%; 15N, 98%) (64480-66-6) | | | |
| No additional information available | | | | |
| 8.2. Appropriate engineering controls | | | | |
| Appropriate engineering controls | : Wash hands and other exposed areas with mild soap and water before eating, drinking or | | | |
| Environmental exposure controls | smoking and when leaving work. : Avoid release to the environment. | | | |
| 8.3. Individual protection measures/Personal protective equipment | | | | |
| Personal protective equipment: Gloves. Protective clothing. Protective goggles. Self-c | ontained breathing apparatus. | | | |

| Materials for protective clothing: | |
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| Wear suitable protective clothing and gloves | |

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Hand protection: Wear suitable protective clothing and gloves Eye protection: Wear eye protection. Chemical goggles or face shield with safety glasses Skin and body protection: Wear suitable protective clothing, gloves and eye/face protection Respiratory protection: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : Solid |
|---|------------------------------|
| Physical state | |
| Appearance | : Crystalline powder. Lumps. |
| Color | : White |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |
| Molecular mass | : 449.6 g/mol (Labeled) |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Two years after receipt of order if stored as above. Re-QC after two years.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents. Reducing agents. Strong bases. Acids.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Nitrogen oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| The information on toxicological effects | |
|--|--|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Potential Adverse human health effects and | : This information is based on our current knowledge and is intended to describe the product for |
| symptoms | the purposes of health, safety and environmental requirements only. It should not therefore be |
| | construed as guaranteeing any specific property of the product. |
| Symptoms/effects after inhalation | : May be harmful if inhaled. May cause respiratory irritation. |
| Symptoms/effects after skin contact | : May be harmful in contact with skin. May cause moderate irritation. |
| Symptoms/effects after eye contact | : May cause eye irritation. |
| Symptoms/effects after ingestion | : May be harmful if swallowed. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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| 12.2. Persistence and degradability | |
|--|--|
| No additional information available | |
| | |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Other adverse effects | |
| Other adverse effects | : Avoid release to the environment. Disposal must be done according to official regulations. |
| | |
| SECTION 13: Disposal considerations | |
| 13.1. Disposal methods | |
| Regional legislation (waste) | : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. |
| Product/Packaging disposal recommendations | Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. |
| Ecology - waste materials | : Dispose of as unused product. |
| | |
| SECTION 14: Transport information | |

In accordance with DOT / TDG / IMDG / IATA

| 14.1. UN number | |
|--|--|
| Not regulated for transport | |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) | Not applicable Not applicable Not applicable Not applicable |
| 14.3. Transport hazard class(es) | |
| DOT Transport hazard class(es) (DOT) | : Not applicable |
| TDG Transport hazard class(es) (TDG) | : Not applicable |
| IMDG Transport hazard class(es) (IMDG) | : Not applicable |
| IATA Transport hazard class(es) (IATA) | : Not applicable |
| 14.4. Packing group | |
| Packing group (DOT) Packing group (TDG) Packing group (IMDG) | Not applicable Not applicable Not applicable |

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| Packing group (IATA) | : Not applicable | |
|--|---|--|
| 14.5. Environmental hazards | | |
| Other information | : No supplementary information available. | |
| 14.6. Special precautions for user | | |
| Special transport precautions | : Not classified as dangerous in the meaning of transport regulations | |
| DOT No data available | | |
| TDG No data available | | |
| IMDG No data available | | |
| IATA No data available | | |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | | |

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

| GLYCOURSODEOXYCHOLIC ACID (GLYCINE-13C2, 99%; 15N, 98%) (64480-66-6) | | | | |
|---|------------|-------------|----------------------|-------|
| SARA Section 302 Threshold Planning Quantity Not subject to reporting requirements of the United States SARA Section 302. TPQ) | | | | |
| Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA): | | | | |
| Name | CAS-No. | Listing | Commercial status | Flags |
| GLYCOURSODEOXYCHOLIC ACID (GLYCINE- 13C2, 99%; 15N, 98%) | 64480-66-6 | Not present | - | |

15.2. International regulations

CANADA

GLYCOURSODEOXYCHOLIC ACID (GLYCINE-13C2, 99%; 15N, 98%) (64480-66-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

GLYCOURSODEOXYCHOLIC ACID (GLYCINE-13C2, 99%; 15N, 98%) (64480-66-6)

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

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| GLYCOURSODEOXYCHOLIC ACIE |) (GLYCINE-13C2, 99%; 15N, 98%) (64480-66-6) | |
|----------------------------|--|--|
| State or local regulations | U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List | |

SECTION 16: Other information

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|---|--|
| Revision date | : 02/27/2023 |
| Other information | : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound. |

Safety Data Sheet (SDS), USA

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