

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/15/2023 Version: 1.0

| SECTION 1: Identification | |
|---|---|
| 1.1. Identification | |
| Product form Substance name CAS-No. Product code Formula | Substance GLYCAN-N56-13C-GAL6,6' ([GALACTOSE-13C6, 99%]2)* NA CLM-10143-CA C56*C12H114N4O50 |
| 1.2. Recommended use and res | strictions 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.co</u> | |
| 1.4. Emergency telephone num | ber |
| Emergency number | : 1-703-741-5970 Chemtrec 1-800-424-9300 24 hours |
| SECTION 2: Hazard(s) identi | fication |
| 2.1. Classification of the substa | ince or mixture |
| GHS US classification Not classified | |
| 2.2. GHS Label elements, includ | ding precautionary statements |
| GHS US labeling No labeling applicable | |
| 2.3. Other hazards which do no | t 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 | |
| GLYCAN-N56-13C-GAL6,6' ([GALACTOSE-13C6, 99%]2)* (Main constituent) | CAS-No.: NA | 100 | Not classified | |
| Full text of hazard classes and H-statements : see section 16 | | | | |

3.2. Mixtures

Not applicable

| SECTION 4: First-aid measures | |
|---|---|
| 4.1. Description of first aid measures | |
| First-aid measures general | : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area. |
| First-aid measures after inhalation | : 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 | : Wash with plenty of soap and water. Get immediate medical advice/attention. |
| First-aid measures after eye contact | : 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 | s (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 | cial 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 chem | nical |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO2). Nitrogen oxides. |
| 5.3. Special protective equipment and prec | autions 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 measures | | | |
|--|--|--|--|
| 6.1. Personal precautions, protective equipm | ent and emergency procedures | | |
| 6.1.1. For non-emergency personnel | | | |
| Emergency procedures : | Avoid breathing vapors, mist, gas. Avoid dust formation. | | |
| 6.1.2. For emergency responders Protective equipment : | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". | | |
| 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 ar | 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. | | |
| 6.4. Reference to other sections | | | |
| For further information refer to section 13. | | | |
| 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. Handle in accordance with good industrial hygiene and safety practice. | | |
| 7.2. Conditions for safe storage, including an | ny incompatibilities | | |
| Technical measures : Storage conditions : | Store in a well-ventilated place. Keep container tightly closed. Store in freezer (-20°C). Protect from light. | | |
| SECTION 8: Exposure controls/personal | protection | | |
| 8.1. Control parameters | | | |
| GLYCAN-N56-13C-GAL6,6' ([GALACTOSE-13 | 3C6, 99%]2)* (NA) | | |
| 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 smoking and when leaving work. | | |
| Environmental exposure controls | Avoid release to the environment. | | |
| 8.3. Individual protection measures/Personal | protective equipment | | |
| Personal protective equipment: Gloves. Protective clothing. Protective goggles. Self-co | ontained breathing apparatus. | | |
| Materials for protective clothing: | | | |
| 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 |
|---|----------------------------|
| Appearance | : Solid. |
| Color | : Colorless to Pale Yellow |
| 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 | : 1799.43 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 | |
| Stable if stored under recommended conditions. | |
| 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. | |
| 10.6. Hazardous decomposition products | |
| Carbon oxides (CO, CO2). Nitrogen oxides. | |
| | |
| SECTION 11: Toxicological information | |

11.1. 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 Not classified Respiratory or skin sensitization : Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure Not classified : : Not classified STOT-repeated exposure Aspiration hazard : Not classified No data available Viscosity, kinematic : 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. May be harmful in contact with skin. May cause moderate irritation. Symptoms/effects after skin contact : 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 | : 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 |
| Product/Packaging disposal recommendations | environmental control regulations. : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed |
| Ecology - waste materials | professional waste disposal service to dispose of this material. : 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) | : Not applicable |

| 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 applicableNot applicableNot applicable | |

:

:

:

Not applicable

Not applicable

Not applicable

Proper Shipping Name (TDG)

Proper Shipping Name (IMDG)

Proper Shipping Name (IATA)

14.3. Transport hazard class(es)

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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 dangerous |
| 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

| GLYCAN-N56-13C-GAL6,6' ([GALACTOSE-13C6, 99%]2)* (NA) | | | | |
|---|---------|-------------|----------------------|-------|
| SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302. | | | | |
| 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 |
| GLYCAN-N56-13C-GAL6,6' ([GALACTOSE-13C6, 99%]2)* | NA | Not present | - | |

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

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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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