

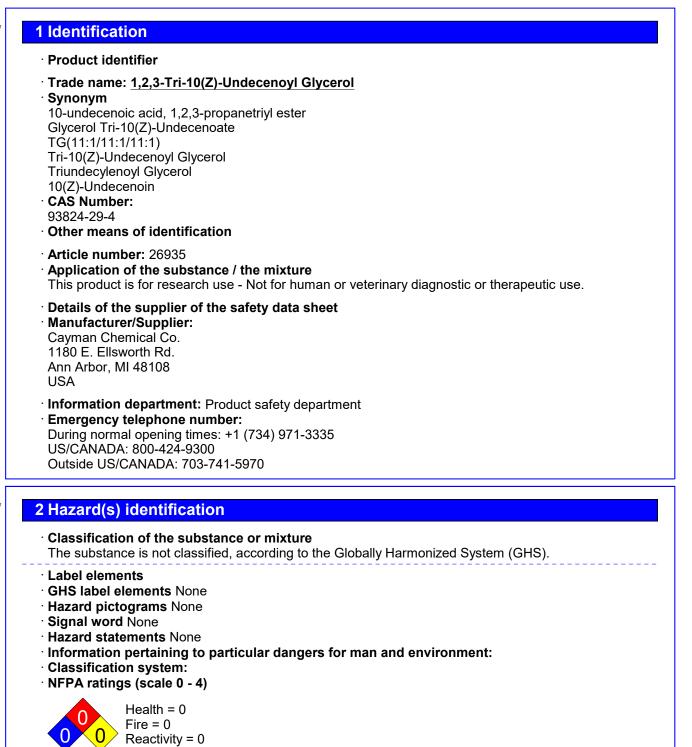
Safety Data Sheet

acc. to OSHA HCS

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Trade name: 1,2,3-Tri-10(Z)-Undecenoyl Glycerol

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· HMIS-ratings (scale 0 - 4)

| HEALTH 0 | Health = 0 |
|--------------|----------------|
| | Fire = 0 |
| REACTIVITY 0 | Reactivity = 0 |

· Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.12000

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 93824-29-4 1,2,3-Tri-10(Z)-Undecenoyl Glycerol

4 First-aid measures

- · Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
- Use fire fighting measures that suit the environment.
- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

• Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.
- Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

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| Information on basic physical and chemic | al properties |
|--|---|
| General Information | ai properties |
| Physical state | Fluid |
| Color: | Not determined. |
| Odor: | Characteristic |
| Structural Formula | C36H62O6 |
| Molecular Weight | 590.9 g/mol |
| Storage Buffer | C C |
| Odor threshold: | Not determined. |
| Formulation | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. |
| Flammability: | Not applicable. |
| Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Flash point: | Not applicable. |
| Decomposition temperature: | Not determined. |
| pH-value: | Not determined. |
| Viscosity: | |
| Kinematic: | Not determined. |
| SOLUBILITY | Chloroform: slightly soluble |
| Dynamic: | Not determined. |
| Solubility in / Miscibility with | |
| Water: | Not determined. |
| Partition coefficient (n-octanol/water): | Not determined. |
| Vapor pressure: | Not determined. |
| Vapor pressure: | |
| Density: | Not determined. |
| Relative density | Not determined. |
| Vapor density | Not determined. |
| Particle characteristics | Not applicable. |
| Other information | |
| Appearance: | |
| Form: | Liquid |
| Important information on protection of hea | |
| and environment, and on safety. | |
| Ignition temperature: | Not determined. |
| Danger of explosion: | Product does not present an explosion hazard. |
| Change in condition | , , |
| Evaporation rate | Not determined. |

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.

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- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- The substance is not subject to classification.
- Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Alternative sources for toxicological information No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Smaller quantities can be disposed of with household waste.

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· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

| Transport information | | |
|--------------------------------------|-----------------|--|
| UN-Number | | |
| DOT, IMDG, IATA | not regulated | |
| UN proper shipping name | | |
| DOT, IMDG, IATA | not regulated | |
| Transport hazard class(es) | | |
| DOT, ADN, IMDG, IATA | | |
| Class | not regulated | |
| Packing group | | |
| DOT, IMDG, IATA | not regulated | |
| Environmental hazards: | Not applicable. | |
| Transport in bulk according to Annex | c II of | |
| MARPOL73/78 and the IBC Code | Not applicable. | |
| Special precautions for user | Not applicable. | |
| UN "Model Regulation": | not regulated | |

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to

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| (Contd. from page 6) be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein. | |
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| Department issuing SDS: Environment protection department. Contact: - Date of previous version 04/27/2022 Date of preparation 10/15/2024 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport dion IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit | |
| * Data compared to the previous version altered. | |