

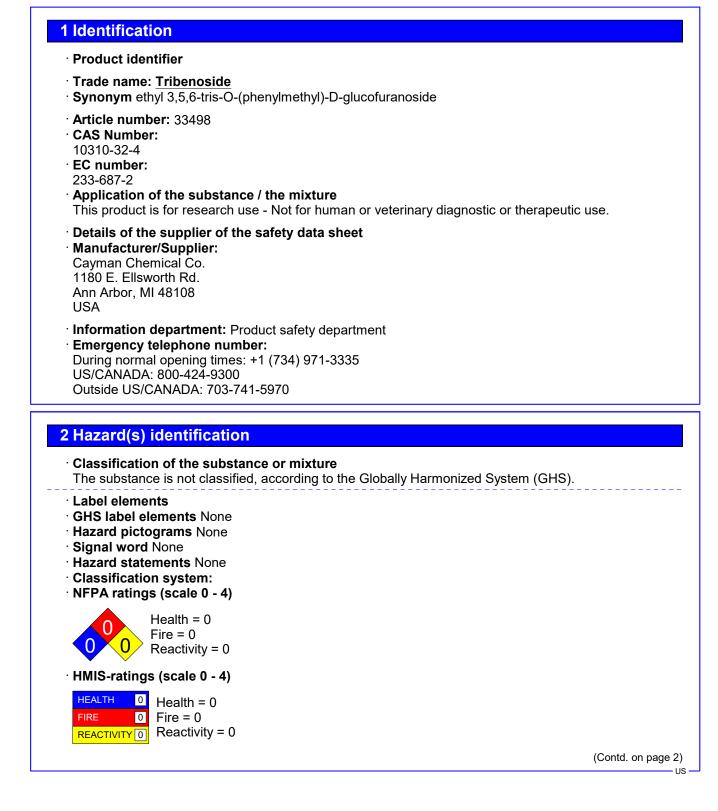
Safety Data Sheet

acc. to OSHA HCS

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Trade name: Tribenoside

- · Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 10310-32-4 Tribenoside
- Identification number(s)
- EC number: 233-687-2

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.
- Information for 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.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- 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.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- **PAC-2:** Substance is not listed.

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· PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- 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

• Additional information about design of technical systems: No further data; see section 7.

- · 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
- · 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.

Information on basic physica General Information	al and chemical properties	
Appearance:		
Form:	neat oil	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C29H34O6	
Molecular Weight	478.6 g/mol	

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· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
0. 00	
· Flash point:	Not applicable.
 Flammability (solid, gaseous): 	Not applicable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not determined.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
SOLUBILITY	DMF: 30 mg/ml; DMSO: 30 mg/ml; Ethanol: 30 mg/ml
· Other information	No further relevant information available.

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.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products: carbon oxides

11 Toxicological information

· RTECS Number LZ4993000

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D50	relevant for classification: >30 g/kg (mouse) >20 g/kg (rat) 3,300 mg/kg (mouse) 2,600 mg/kg (rat)
traperitoneal LD50	>20 g/kg (rat) 3,300 mg/kg (mouse) 2,600 mg/kg (rat)
	3,300 mg/kg (mouse) 2,600 mg/kg (rat)
	2,600 mg/kg (rat)
ubcutaneous LD50	
ubcutaneous LD50	
	>30 g/kg (mouse)
	>20 g/kg (rat)
y irritant effect: skin: No irritant eff eye: No irritating ef zation: No sensitiz	ffect.
onal toxicological i used and handled ng to our experienc	information: according to specifications, the product does not have any harmful effe ce and the information provided to us.
gical informati	on
	er relevant information available.
y c toxicity: No furth ence and degrada or in environment	er relevant information available. ability No further relevant information available. tal systems:
y c toxicity: No furth ence and degrada or in environment umulative potenti	er relevant information available. ability No further relevant information available. tal systems: al No further relevant information available.
y c toxicity: No furth ence and degrada or in environment umulative potenti y in soil No further	er relevant information available. ability No further relevant information available. tal systems: al No further relevant information available. relevant information available.
y c toxicity: No furth ence and degrada or in environment umulative potenti y in soil No further onal ecological info	er relevant information available. ability No further relevant information available. tal systems: al No further relevant information available. relevant information available.
y c toxicity: No furthe ence and degrada or in environment umulative potentia y in soil No further onal ecological infe al notes: nazard class 1 (Self	er relevant information available. ability No further relevant information available. tal systems: al No further relevant information available. relevant information available. formation: f-assessment): slightly hazardous for water
y c toxicity: No furthe ence and degrada for in environment umulative potentia y in soil No further onal ecological infe al notes: nazard class 1 (Self allow undiluted pro	er relevant information available. ability No further relevant information available. tal systems: al No further relevant information available. relevant information available. formation: f-assessment): slightly hazardous for water
y c toxicity: No further ence and degradation in environment sumulative potentia y in soil No further onal ecological infe al notes: nazard class 1 (Self allow undiluted pro-	er relevant information available. ability No further relevant information available. tal systems: al No further relevant information available. relevant information available. ormation: f-assessment): slightly hazardous for water oduct or large quantities of it to reach ground water, water course or sewa
y c toxicity: No furthe ence and degrada for in environment umulative potentia y in soil No further onal ecological infe al notes: nazard class 1 (Self allow undiluted pro	er relevant information available. ability No further relevant information available. tal systems: al No further relevant information available. relevant information available. ormation: f-assessment): slightly hazardous for water oduct or large quantities of it to reach ground water, water course or sewa
y c toxicity: No further ence and degradation in environment sumulative potentia y in soil No further onal ecological infe al notes: nazard class 1 (Self allow undiluted pro-	er relevant information available. ability No further relevant information available. tal systems: al No further relevant information available. relevant information available. ormation: f-assessment): slightly hazardous for water oduct or large quantities of it to reach ground water, water course or sewa
	eye: No irritating et zation: No sensitiz nal toxicological used and handled

· Recommendation: Smaller quantities can be disposed of with household waste.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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UN-Number DOT, IMDG, IATA	not regulated
UN proper shipping name	notrogalatou
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.
Special precautions for user	Not applicable.
Transport in bulk according to Anne	x II of
MARPOL73/78 and the IBC Code	Not applicable.

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.

· Proposition 65

- · 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 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 preparation / last revision 10/17/2023 	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
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	
REL: Recommended Exposure Limit	
* Data compared to the previous version altered.	
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