

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

### SECTION 1. IDENTIFICATION

Product name : Glyclean™ D99

SDS-Identcode : 130000147739

#### Manufacturer or supplier's details

Company name of supplier : PureTech Scientific LLC

Address : 901 W. DuPont Ave  
Belle, WV 25015 United States of America (USA)

Telephone : 1-877-215-5999

Telefax : 1-304-357-1364

Emergency telephone : +1 866 519 4752 Access code 336264

E-mail address : sds-support@puretechscientific.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Biocidal product

Restrictions on use : Not applicable

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.

Precautionary Statements : **Prevention:**  
P260 Do not breathe dusts or mists.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

P261 Avoid breathing dust, fume, gas, mist, vapors or spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

### Response:

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER.  
P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.  
P363 Wash contaminated clothing before reuse.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

### Other hazards

Corrosive to the respiratory tract.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : Glycolic acid  
CAS-No. : 79-14-1

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Glycolic acid	79-14-1	>= 90 - <= 100

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

- If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention immediately.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention immediately.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.  
If vomiting occurs have person lean forward.  
Call a physician or poison control center immediately.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Inhalation may provoke the following symptoms:  
Cough  
Shortness of breath  
Pain  
Irritation  
Skin contact may provoke the following symptoms:  
Irritation  
Rash  
Necrosis  
Discomfort  
Eye contact may provoke the following symptoms  
Corrosion  
Ulceration  
Severe irritation  
Ingestion may provoke the following symptoms:  
Gastrointestinal discomfort  
Nausea  
Vomiting  
Diarrhea  
Causes serious eye damage.  
Harmful if inhaled.  
Causes severe burns.  
Causes digestive tract burns.  
Corrosive to respiratory system.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Surround spill with absorbents and place a damp covering over the area to minimize entry of the material into the air.  
Add excess liquid to allow the material to enter into solution.  
Soak up with inert absorbent material.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version 3.1      Revision Date: 10/30/2023      SDS Number: 7674223-00010      Date of last issue: 08/11/2023  
Date of first issue: 12/12/2020

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
Avoid breathing dust, fume, gas, mist, vapors or spray.  
Do not breathe dusts or mists.  
Do not swallow.  
Do not get in eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Take care to prevent spills, waste and minimize release to the environment.  
  
Do not breathe decomposition products.
- Conditions for safe storage : Keep in properly labeled containers.  
Store locked up.  
Keep tightly closed.  
Keep in a cool, well-ventilated place.  
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives
- Recommended storage temperature : > 50 °F / > 10 °C

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	NIOSH REL
		ST	30,000 ppm	NIOSH REL

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version 3.1      Revision Date: 10/30/2023      SDS Number: 7674223-00010      Date of last issue: 08/11/2023  
Date of first issue: 12/12/2020

			54,000 mg/m <sup>3</sup>	
		TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	OSHA Z-1

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
Minimize workplace exposure concentrations.  
If sufficient ventilation is unavailable, use with local exhaust ventilation.

### Personal protective equipment

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

### Hand protection

**Material** : Chemical-resistant gloves

**Remarks** : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

**Eye protection** : Wear the following personal protective equipment:  
Chemical resistant goggles must be worn.  
If splashes are likely to occur, wear:  
Face-shield

**Skin and body protection** : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

**Hygiene measures** : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: crystalline
Color	: colorless
Odor	: slight
Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point	: > 172 °F / > 78 °C
Initial boiling point and boiling range	: 336 °F / 169 °C
Flash point	: > 212 °F / > 100 °C
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not classified as a flammability hazard, Not expected to form explosive dust-air mixtures.
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: 0.0041 hPa (77 °F / 25 °C)
Relative vapor density	: Not applicable
Relative density	: 1.36 (79 °F / 26 °C)
Density	: 1.266 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies) Water solubility	: > 300 g/l (72 °F / 22 °C)
Partition coefficient: n-octanol/water	: log Pow: -1.07 (77 °F / 25 °C)
Autoignition temperature	: No data available
Decomposition temperature	: No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

Viscosity  
Viscosity, kinematic : 6.149 mm<sup>2</sup>/s (73 °F / 23 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

#### Hazardous decomposition products

Thermal decomposition : Carbon dioxide

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Skin contact

Ingestion

Eye contact

#### Acute toxicity

Harmful if inhaled.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 2,045 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 3.61 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

#### Glycolic acid:

Acute oral toxicity : LD50 (Rat): 2,040 mg/kg

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

Method: US EPA Test Guideline OPP 81-1

Acute inhalation toxicity : LC50 (Rat): 3.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

Causes severe burns.

#### Components:

##### Glycolic acid:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

### Serious eye damage/eye irritation

Causes serious eye damage.

#### Components:

##### Glycolic acid:

Species : Rabbit  
Result : Irreversible effects on the eye  
Method : OECD Test Guideline 405

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Components:

##### Glycolic acid:

Test Type : Buehler Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

### Germ cell mutagenicity

Not classified based on available information.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

---

### Components:

#### **Glycolic acid:**

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.

#### **Carcinogenicity**

Not classified based on available information.

### Components:

#### **Glycolic acid:**

Species	:	Mouse
Application Route	:	Skin contact
Exposure time	:	40 weeks
Result	:	negative
Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

Not classified based on available information.

### Components:

#### **Glycolic acid:**

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: Regulation (EC) No. 440/2008, Annex, B.34  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

##### **Glycolic acid:**

Species	: Rat, male and female
NOAEL	: 150 mg/kg
LOAEL	: 300 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OECD Test Guideline 408

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

#### Product:

Inhalation : Symptoms: At atmospheric temperature, this product has only a minimal risk of inhalation due to its low vapor pressure., Inhalation of dust may cause serious respiratory problems., Corrosive to the respiratory tract.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Glycolic acid:**

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 114.8 mg/l Exposure time: 96 h
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# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 99.6 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 31.2 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 14.4 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### Persistence and degradability

#### Components:

##### **Glycolic acid:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Components:

##### **Glycolic acid:**

Partition coefficient: n-octanol/water : log Pow: -1.07

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.  
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

### UNRTDG

UN number	: UN 3261
Proper shipping name	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
Class	: 8
Packing group	: II
Labels	: 8
Environmentally hazardous	: no

### IATA-DGR

UN/ID No.	: UN 3261
Proper shipping name	: Corrosive solid, acidic, organic, n.o.s. (Glycolic acid)
Class	: 8
Packing group	: II
Labels	: Corrosive
Packing instruction (cargo aircraft)	: 863
Packing instruction (passenger aircraft)	: 859

### IMDG-Code

UN number	: UN 3261
Proper shipping name	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
Class	: 8
Packing group	: II
Labels	: 8
EmS Code	: F-A, S-B
Marine pollutant	: no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number	: UN 3261
Proper shipping name	: Corrosive solid, acidic, organic, n.o.s. (Glycolic acid)
Class	: 8
Packing group	: II
Labels	: CORROSIVE
ERG Code	: 154
Marine pollutant	: no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

---

### SECTION 15. REGULATORY INFORMATION

#### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### Pennsylvania Right To Know

Glycolic acid

79-14-1

##### California Prop. 65

WARNING: This product can expose you to chemicals including Formaldehyde, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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### SECTION 16. OTHER INFORMATION

#### Further information

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

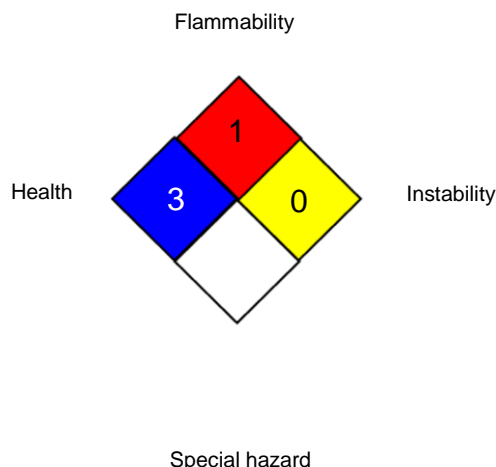
Version  
3.1

Revision Date:  
10/30/2023

SDS Number:  
7674223-00010

Date of last issue: 08/11/2023  
Date of first issue: 12/12/2020

### NFPA 704:



### HMIS® IV:

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "/" represents a chronic hazard, while the "0" represents the absence of a chronic hazard.

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### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Glyclean™ D99

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2023
3.1	10/30/2023	7674223-00010	Date of first issue: 12/12/2020

50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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