

# SAFETY DATA SHEET

## Glyclean™ D99



Version	Revision Date:	SDS Number:	Date of last issue: 11.08.2023
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name	:	Glyclean™ D99
SDS-Identcode	:	130000147739
REACH Registration Number	:	01-2119485579-17-0000
Substance name	:	Glycolic acid
EC-No.	:	201-180-5

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	:	Biocidal product
Recommended restrictions on use	:	Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company	:	PureTech Scientific LLC (Appointed Only Representative: Blue Frog Scientific EURL) 901 W. DuPont Ave Belle, WV 25015 United States of America (USA)
Telephone	:	1-877-215-5999
Telefax	:	1-304-357-1364
E-mail address of person responsible for the SDS	:	sds-support@puretechscientific.com

#### 1.4 Emergency telephone number

+1 760 476 3959 access code 336264

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

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

Supplemental Hazard Statements : EUH071 Corrosive to the respiratory tract.

Precautionary statements : **Prevention:**  
P260 Do not breathe dust or mist.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/ doctor.  
P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor.  
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/ doctor.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : Glycolic acid

EC-No. : 201-180-5

#### Components

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

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |  |
|----------------------------|--|
| General advice             | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.   |
| 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).  |
| If inhaled                 | : If inhaled, remove to fresh air.<br>If not breathing, give artificial respiration.<br>If breathing is difficult, give oxygen.<br>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.<br>Get medical attention immediately.<br>Wash clothing before reuse.<br>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.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention immediately.   |
| If swallowed               | : If swallowed, DO NOT induce vomiting.<br>If vomiting occurs have person lean forward.<br>Call a physician or poison control centre immediately.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.      |

#### 4.2 Most important symptoms and effects, both acute and delayed

- |          |   |
|----------|---|
| Symptoms | : Inhalation may provoke the following symptoms:<br>Cough<br>Shortness of breath<br>Pain<br>Irritation<br><br>Skin contact may provoke the following symptoms:<br>Irritation<br>Rash<br>Necrosis<br>Discomfort<br><br>Eye contact may provoke the following symptoms<br>Corrosion |
|----------|---|

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Ulceration  
Severe irritation

Ingestion may provoke the following symptoms:  
Gastrointestinal discomfort  
Nausea  
Vomiting  
Diarrhoea

Risks : Causes serious eye damage.  
Harmful if inhaled.  
Causes severe burns.  
Corrosive to the respiratory tract.

Causes digestive tract burns.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

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.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

#### 6.2 Environmental precautions

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.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Surround spill with absorbents and place a damp covering over the area to minimise 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.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

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, vapours or spray.  
Do not breathe dust or mist.  
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.

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Take care to prevent spills, waste and minimize release to the environment.

Do not breathe decomposition products.

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.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives

Recommended storage temperature : > 10 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 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	Basis
Carbon dioxide	124-38-9	TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	2006/15/EC
Further information: Indicative				

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Glycolic acid	Workers	Inhalation	Acute systemic effects	9.2 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	9.2 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	57.69 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	10.56 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local ef-	1.53 mg/m <sup>3</sup>

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			fects	
	Consumers	Inhalation	Acute systemic effects	2.3 mg/m3
	Consumers	Skin contact	Long-term systemic effects	28.85 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Inhalation	Acute local effects	2.3 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2.6 mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Glycolic acid	Fresh water	0.0312 mg/l
	Freshwater - intermittent	0.312 mg/l
	Marine water	0.0031 mg/l
	Marine sediment	0.0115 mg/kg dry weight (d.w.)
	Fresh water sediment	0.115 mg/kg dry weight (d.w.)
	Soil	0.007 mg/kg dry weight (d.w.)
	Sewage treatment plant	7 mg/l
	Oral (Secondary Poisoning)	16.66 mg/kg food

## 8.2 Exposure controls

### 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

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

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and 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.

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

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clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Inorganic gas/vapour type (B)

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: crystalline
Colour	: colourless
Odour	: slight
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: > 78 °C
Initial boiling point and boiling range	: 169 °C
Flash point	: > 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
Vapour pressure	: 0.0041 hPa (25 °C)
Relative vapour density	: Not applicable
Relative density	: 1.36 (26 °C)
Density	: 1.266 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: > 300 g/l (22 °C)
Partition coefficient: n-octanol/water	: log Pow: -1.07 (25 °C)



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Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	6.149 mm <sup>2</sup> /s (23 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Particle size	:	No data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
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### 10.4 Conditions to avoid

Conditions to avoid	:	None known.
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### 10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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### 10.6 Hazardous decomposition products

Thermal decomposition	:	Carbon dioxide
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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure	:	Skin contact Ingestion Eye contact
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#### Acute toxicity

Harmful if inhaled.

#### Product:

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

### **Components:**

#### **Glycolic acid:**

Acute oral toxicity	:	LD50 (Rat): 2,040 mg/kg 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
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **Glycolic acid:**

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406

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Result : negative

### Germ cell mutagenicity

Not classified based on available information.

#### 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

### Reproductive toxicity

Not classified based on available information.

#### Components:

##### Glycolic acid:

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

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Result: negative

Effects on foetal development : Test Type: Embryo-foetal 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

Corrosive to the respiratory tract.

### 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: Cough, Dizziness, Severe irritation, Damage

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

Skin contact : Symptoms: Inflammation, Burn, Damage, Corrosion

Eye contact : Symptoms: Severe irritation, Corrosion, Ulceration

Ingestion : Symptoms: Vomiting, Diarrhoea, Abdominal pain, Gastrointestinal disturbance

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

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

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

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

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 31.2  
plants 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

#### 12.2 Persistence and degradability

##### Components:

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

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

#### 12.3 Bioaccumulative potential

##### Components:

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

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

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

##### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### 12.6 Other adverse effects

#### **Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. 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.

## SECTION 14: Transport information

### 14.1 UN number

ADN	: UN 3261
ADR	: UN 3261
RID	: UN 3261
IMDG	: UN 3261
IATA	: UN 3261

### 14.2 UN proper shipping name

ADN	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
ADR	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
RID	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
IMDG	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
IATA	: Corrosive solid, acidic, organic, n.o.s. (Glycolic acid)

### 14.3 Transport hazard class(es)

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	Class	Subsidiary risks
<b>ADN</b>	: 8	
<b>ADR</b>	: 8	
<b>RID</b>	: 8	
<b>IMDG</b>	: 8	
<b>IATA</b>	: 8	

### 14.4 Packing group

<b>ADN</b>	
Packing group	: II
Classification Code	: C4
Hazard Identification Number	: 80
Labels	: 8
<b>ADR</b>	
Packing group	: II
Classification Code	: C4
Hazard Identification Number	: 80
Labels	: 8
Tunnel restriction code	: (E)
<b>RID</b>	
Packing group	: II
Classification Code	: C4
Hazard Identification Number	: 80
Labels	: 8
<b>IMDG</b>	
Packing group	: II
Labels	: 8
EmS Code	: F-A, S-B
<b>IATA (Cargo)</b>	
Packing instruction (cargo aircraft)	: 863
Packing instruction (LQ)	: Y844
Packing group	: II
Labels	: Corrosive
<b>IATA (Passenger)</b>	
Packing instruction (passenger aircraft)	: 859
Packing instruction (LQ)	: Y844
Packing group	: II
Labels	: Corrosive

### 14.5 Environmental hazards

<b>ADN</b>	
Environmentally hazardous	: no
<b>ADR</b>	
Environmentally hazardous	: no
<b>RID</b>	

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Environmentally hazardous : no

### IMDG

Marine pollutant : no

#### 14.6 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.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

### SECTION 16: Other information

Other information : Glyclean™ and any associated logos are trademarks or copyrights of PureTech Scientific LLC.  
Before use read PureTech Scientific LLC safety information.  
For further information contact the local PureTech Scientific LLC office or nominated distributors.  
Blue Frog Scientific EURL, as OR for PureTech Scientific LLC  
USA, 967 Route de la Plaine, La Plaine, 26400 Chabrillan,  
France, or@bluefrogsscientific.com.

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### Full text of other abbreviations

2006/15/EC : Europe. Indicative occupational exposure limit values  
2006/15/EC / TWA : Limit Value - eight hours

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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 - Interna-



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tional 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 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; 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

### Further information

Sources of key data used to compile the 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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