#### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: July 05, 2018

Revision: July 05, 2018

Product ider	ifier	
Trade name: Product code	lycine Solution, 10% w/v GL3510SS	
Recommende	l use and restriction on use l use: Laboratory chemicals n use: No relevant information available.	
Details of the Manufacturer AquaPhoenix S 860 Gitts Run Hanover, PA 1 Phone: (717)6 Toll-Free: (866 info@aquapho	cientific, Inc. load 331 2-1291 632-1291	
ChemTel Inc. (800)255-3924	ephone number: (North America) 85 (International)	

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

#### <sup>.</sup> Label elements

The product is not classified as hazardous according to OSHA GHS regulations within the United States. • **GHS label elements** This product does not have a classification according to the GHS regulation.

- · Hazard pictograms: Not regulated.
- · Signal word: Not regulated.
- · Hazard statements: Not regulated.
- · Precautionary statements: Not regulated.

• Other hazards There are no other hazards not otherwise classified that have been identified.

#### **3** Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Components:

7732-18-5 Water

56-40-6 glycine

#### Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

#### **4 First-aid measures**

<sup>•</sup> Description of first aid measures

(Cont'd. on page 2)

≥90%

≤10%

#### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

#### Printing date: July 05, 2018

Revision: July 05, 2018

#### Trade name: Glycine Solution, 10% w/v

(Cont'd. of page 1)

· After inhalation: Supply fresh air; consult doctor in case of complaints.

#### · After skin contact:

Rinse with warm water.

If skin irritation is experienced, consult a doctor.

After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Most important symptoms and effects, both acute and delayed: No relevant information available.
- Indication of any immediate medical attention and special treatment needed:
- No relevant information available.

#### 5 Fire-fighting measures

#### Extinguishing media

#### · Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture No relevant information available.
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures No special measures required.
- Environmental precautions No special measures required.

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

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. Dispose of the collected material according to regulations.

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

<sup>·</sup> Handling

• Precautions for safe handling: No special measures required.

· Information about protection against explosions and fires: No special measures required.

(Cont'd. on page 3)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: July 05, 2018

Revision: July 05, 2018

Trade name: Glycine Solution, 10% w/v

(Cont'd. of page 2)

# Conditions for safe storage, including any incompatibilities Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

- Information about storage in one common storage facility: No relevant information available.
- **Specific end use(s)** No relevant information available.

#### 8 Exposure controls/personal protection

#### <sup>·</sup> Control parameters

· Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### <sup>•</sup> Exposure controls

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

- Engineering controls: No relevant information available.
- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands: Gloves not required under normal conditions of use.
- Eye protection: Follow relevant national guidelines concerning the use of protective eyewear.
- · Body protection: Not required under normal conditions of use.
- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

Physical and chemical prope	erties	
Information on basic physical	and chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Not determined.	
		(Cont'd. on page

#### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: July 05, 2018

Revision: July 05, 2018

Trade name: Glycine Solution, 10% w/v

		(Cont'd. of page
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/v	vater): Not determined.	
·Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
• Other information	No relevant information available.	

#### 10 Stability and reactivity

· Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

• Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No relevant information available.

· Incompatible materials No relevant information available.

#### · Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

#### **11** Toxicological information

<sup>·</sup> Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification: None.

· Primary irritant effect:

• On the skin: Based on available data, the classification criteria are not met.

· On the eye: Based on available data, the classification criteria are not met.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

## · Probable route(s) of exposure:

(Cont'd. on page 5)

#### acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: July 05, 2018

Revision: July 05, 2018

Trade name: Glycine Solution, 10% w/v

(Cont'd. of page 4)

Ingestion. Inhalation.

Eye contact.

Skin contact.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

- · Carcinogenicity: Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- $\cdot$  STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

#### **12 Ecological information**

#### <sup>·</sup> Toxicity

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

#### **13 Disposal considerations**

#### <sup>·</sup> Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

#### <sup>·</sup> Uncleaned packagings

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

UN-Number		
· DOT, ADR, IMDG, IATA	Not regulated.	
<sup>·</sup> UN proper shipping name · DOT, ADR, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
· DOT, ADR, IMDG, IATA		

# Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: July 05, 2018

Revision: July 05, 2018

Trade name: Glycine Solution, 10% w/v

		(Cont'd. of page 5)
· Class	Not regulated.	
<ul> <li>Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	Not regulated.	
<ul> <li>Environmental hazards</li> <li>Marine pollutant:</li> </ul>	No	
<sup>·</sup> Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	<b>II of</b> Not applicable.	

# **15 Regulatory information**

Section 302 (extremely hazardous substances):         None of the ingredients are listed.         Section 355 (extremely hazardous substances):         None of the ingredients are listed.         Section 313 (Specific toxic chemical listings):         None of the ingredients are listed.         TSCA (Toxic Substances Control Act)         All ingredients are listed.         Proposition 65 (California)         Chemicals known to cause cancer:         None of the ingredients are listed.         Chemicals known to cause developmental toxicity for females:         None of the ingredients are listed.         Chemicals known to cause developmental toxicity for males:         None of the ingredients are listed.         Chemicals known to cause developmental toxicity for males:         None of the ingredients are listed.         Chemicals known to cause developmental toxicity for males:         None of the ingredients are listed.         EPA (Environmental Protection Agency):         None of the ingredients are listed.         IARC (International Agency for Research on Cancer):         None of the ingredients are listed.	United States (USA) SARA	
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Printing date: July 05, 2018

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Revision: July 05, 2018

Trade name: Glycine Solution, 10% w/v

(Cont'd. of page 6)

	This information is based on our present knowledge. However, this shall not constitute a guarantee for a specific product features and shall not establish a legally valid contractual relationship.
	Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration <b>Sources</b> Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/hom overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISB 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers
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