

# Safety Data Sheet Version 3.10 Revised: 2016-05-02

## **1. PRODUCT AND COMPANY IDENTIFICATION**

<u>Product Identifier</u> Product Name	Glycine		
<u>Other means of identification</u> Product Code(s) Synonyms	A2716 Aminoacetic acid ; Glycin ;		
Product Use	For Laboratory Research Use Only.		
Supplier/Manufacturer Biomatik Corporation 9-140 McGovern Dr. Cambridge, Ontario N3H 4R7 Canada			
Telephone Number E-mail Address	1-519-489-7195 info@biomatik.com		
Emergency Telephone Number	Chemtrec 1-800-424-9300		
2. HAZARDS IDENTIFICATION			
<u>Classification</u>	Classification		
OSHA Regulatory Status			

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

#### Label elements

Emergency Overview Physical State Powder Appearance White Odor No information available

# Hazards not otherwise classified (HNOC)

Not regulated

Other Information Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Aminoacetic acid ; Glycin ;

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Glycine	56-40-6	200-272-2	95-100	Not applicable

# **4. FIRST AID MEASURES**

First Aid Measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use.		
Inhalation	Move to fresh air. If not breathing, give artificial respiration.		
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth.		
Most important symptoms and effects, both acute and delayed			
Most Important Symptoms/Effects	No information available.		
Indication of any immediate medical attention and special treatment needed			
Notes to Physician	Treat symptomatically.		
5. FIRE-FIGHTING MEASURES			

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

## **Specific Hazards Arising from the Chemical**

No information available.

Hazardous Combustion	Carbon oxides. Ammonia. Nitrogen oxides (NOx).
Products	

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Personal protection	Ensure adequate ventilation, especially in confined areas.	
Environmental Precautions		
Environmental Precautions	See Section 12 for additional Ecological information.	
Methods and material for containment and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.	
Methods for Cleaning Up	Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.	
7. HANDLING AND STORAGE		

## **Precautions for Safe Handling**

Boiling Point/Range

Evaporation Rate

Vapor pressure Vapor Density Specific Gravity

Water Solubility

Partition coefficient

Flash Point (High in °C)

Flammability (solid, gas)

Flammability Limit in Air Upper flammability limit:

Lower flammability limit:

Solubility in other solvents

**Autoignition Temperature** 

Handling	Handle in accordance with goo	Handle in accordance with good industrial hygiene and safety practice.			
Conditions for safe storage, inc	luding any incompatibilities				
Storage	Keep containers tightly closed i	n a dry, cool and well-ventilate	ed place.		
Incompatible Products	Strong oxidizing agents.				
8.	EXPOSURE CONTROLS/PE	<b>RSONAL PROTECTION</b>			
Control parameters					
Exposure Guidelines	This product does not contain a established by the region speci		ccupational exposure limits		
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH		
Glycine	-	-	-		
Appropriate engineering contro	bls				
Engineering Measures	Showers Eyewash stations Ventilation systems.				
Individual protection measures	, such as personal protective equip	ment			
Eye/Face Protection	Avoid contact with eyes. Safety glasses with side-shields.				
Skin and Body Protection	Wear protective gloves/clothing	Wear protective gloves/clothing.			
Respiratory Protection	respiratory protection should be required for high airborne conta	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.			
Hygiene Measures	ures Handle in accordance with good industrial hygiene and safety practice.				
	9. PHYSICAL AND CHEMI	CAL PROPERTIES			
Information on basic physical a	nd chemical properties				
Physical State Appearance	Powder White	Odor	No information available		
Color	No information available	Odor Odor Threshold	No information available		
<u>Property</u> pH Melting point/freezing point	<u>Values</u> No information available 240 °C / 464 °F	<u>Remarks • Method</u>			

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No information available

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Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
Other Information	
Softening Point	No information available
Molecular Weight	No information available
VOC Content	No information available
Density	No information available
Bulk Density	No information available

# **10. STABILITY AND REACTIVITY**

# Reactivity

No data available

<u>Chemical Stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Conditions to Avoid</u> Extremes of temperature and direct sunlight. <u>Incompatible Materials</u> Strong oxidizing agents. <u>Hazardous Decomposition Products</u> Carbon oxides. Nitrogen oxides (NOx). Ammonia.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information
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Chamical Nama	L DE0 Oral	I DE0 Dormal
Ingestion	No known effect based o	n information supplied.
Skin Contact	There is no data available	e for this product.
Eye Contact	There is no data available	e for this product.
Inhalation	There is no data available	e for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycine	= 7930 mg/kg (Rat)	-	-

## Information on toxicological effects

Symptoms

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No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Mutagenic Effects Carcinogenicity	No information available. No information available. No information available.			
Chemical Name	ACGIH	IARC	NTP	OSHA
Glycine	-	-	-	-
Reproductive Toxicity STOT - single exposure	No information available. No information available.			

STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity **The following values are calculated based on chapter 3.1 of the GHS document**.

# **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Glycine	-	-	-
-			

## Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Glycine	-

**Other Adverse Effects** 

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste Disposal Method** Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** 

Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Glycine	-	-	-	-

Chemical Name	California Hazardous Waste Status
Glycine	-

## 14. TRANSPORT INFORMATION

DOT

Not regulated

Not regulated

<u>IATA</u>

## **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies

KECL	Complies
PICCS	Complies
AICS	Complies

Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Glycine	-

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Glycine	-	-	-	-

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Glycine	-	-	-

## U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65		
Glycine	-		

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Glycine	-	-	-

# U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

# **16. OTHER INFORMATION**

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

## **End of Safety Data Sheet**