	<h1>SAFETY DATA SHEET</h1>	Page : 1
		Revised edition no : 0
		Date : 27 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Glycine</h2>		DOC(0)138-141

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Identification of the product : Substance
 Product code : DOC0138 - 0141
 Trade name : Glycine
 CAS number : 000056 - 40 - 6
 Synonyms : Aminoethanoic acid / Aminoacetic acid / Glycocoll

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

1.2.1 Relevant identified uses : For research purposes only
 1.2.2 Uses advised against : No additional information available

1.3. Details of the supplier of the safety data sheet

Company identification : Formedium Ltd.
 Unit 1B Hunstanton Commercial Park
 Norfolk PE365JQ
 Tel: +44(0)1485 609069
 Fax: +44(0)1485 600510
 E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency telephone number : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
 National Poison Information Centre : Europe UK : +44 0845 4647 (this service is only available to health professionals)
 See www.toxbase.org for a local poison centre

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008

Not regulated

Adverse physiochemical, human health and environmental effects
 No additional information available.


2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazards pictograms code : None
 Precautionary statements : None

2.3 Other hazards

None under normal conditions.

	<h1>SAFETY DATA SHEET</h1>	Page : 2
		Revised edition no : 0
		Date : 26 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Glycine</h2>		DOC(0)138-141

SECTION 3 Composition/information on ingredients
3.1. Substances

Substance name:	Contents	CAS No:	EC No:	Annex No:	Ref REACH	Classification
Glycine	> 98.5 %	56-40-6	200-272-2	--	--	Not classified

3.2. Mixtures

Not applicable.

SECTION 4 First aid measures
4.1. Description of first aid measures

- General** : Seek medical attention if ill effects develop.
- Inhalation** : Remove victim to fresh air.
- Skin contact** : Wash skin with mild soap and water.
- Eye contact** : Rinse with water.
- Ingestion** : Rinse mouth.

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

No additional information available..

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

No additional information available.


SECTION 5 Fire-fighting measures
5.1. Extinguishing media
Suitable extinguishing media : Water spray, Carbon dioxide (CO2), Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

No additional information available.

5.3. Advice for firefighters

- Precautionary measures fire** : Wear proper protective equipment.
- Firefighting instructions** : Prevent fire fighting water from entering the environment.

	<h1>SAFETY DATA SHEET</h1>	Page : 3
		Revised edition no : 0
		Date : 27 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Glycine</h2>		DOC(0)138-141

SECTION 6 Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Wear proper protective clothing.
- 6.1.1. For non-emergency personnel : No additional information available.
- 6.1.2. For emergency responders : No additional information available.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Dispose in a safe manner in accordance with local / national regulations.
Sweep up dry powder and dispose properly.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7 Handling and storage
7.1. Precautions for safe handling

- Precautions for safe handling : Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a dry, well-ventilated area. Store at room temperature.

7.3. Specific end use(s)

For research purposes only

SECTION 8 Exposure controls/personal protection
8.1. Control parameters

No additional information available.

8.2. Exposure controls

Type	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile Rubber (NBR)	6 (> 480 minutes)	0.11	EN 374

- **Eye protection** : Safety glasses.
- **Skin and body protection** : Wear suitable protective clothing.
- **Respiratory protection** : Where excessive dust may result, wear approved mask. Type P1 (EN143)

SECTION 9 Physical and chemical properties
9.1 Information on basic physical and chemical properties.

- Physical state : Solid
- Appearance : Powder
- Molecular mass : 75.1 g/mol
- Colour : White
- Odour : Odourless

Formedium Ltd.

Unit 1B Hunstanton Commercial Park Norfolk PE365JQ

Tel: +44(0)1485 609069

Fax: +44(0)1485 600510

E-mail: info@formedium.com

In case of emergency :+44(0)1485 609069

	<h1>SAFETY DATA SHEET</h1>	Page : 4
		Revised edition no : 0
		Date : 27 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Glycine</h2>		DOC(0)138-141

SECTION 9 Physical and chemical properties (continued)

Odour threshold	: No data available.
pH	: No data available.
pH solution	: 5.9 – 6.4 % (5% solution)
Relative evaporation rate (butylacetate = 1)	: No data available.
Melting point	: Circa 232°C
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available.
Flammability (solid / gas)	: Non flammable.
Vapour pressure	: No data available.
Relative vapour density at 20 C	: No data available.
Relative Density	: 1595 g/cm3
Solubility	: Water : 250 g/L (25°C)
Log Pow	: -2.3 at 20°C
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: 100 g/m3

9.2 Other information

Other properties	: No additional information available.
-------------------------	--

	<h1>SAFETY DATA SHEET</h1>	Page : 5
		Revised edition no : 0
		Date : 27 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Glycine</h2>		DOC(0)138-141

SECTION 10 Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available..

10.4. Conditions to avoid

Heat, Moisture.

10.5. Incompatible materials

Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products

May liberate toxic gases.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion / irritation	: Not classified
Serious eye damage / irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT – single exposure	: Not classified
STOT – repeated exposure	: Not classified
Aspiration hazard	: May cause irritation to the respiratory tract.

SECTION 12 Ecological information

12.1. Toxicity

LD50 oral rat	: 7930 mg/Kg
LC50 Fish 1	: > 5 mg/L

12.2. Persistence and degradability

Product is biodegradable.

BOD (% of ThOD) : 57% ThOD (5 days)

12.3. Bioaccumulative potential

Log Pow : -2.3 at 20°C
No bioaccumulation.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

Additional information : Prevent entry to sewers and public waters. Avoid release to the environment.

Formedium Ltd.

Unit 1B Hunstanton Commercial Park Norfolk PE365JQ

Tel: +44(0)1485 609069

Fax: +44(0)1485 600510

E-mail: info@formedium.com

In case of emergency :+44(0)1485 609069

	<h1>SAFETY DATA SHEET</h1>	Page : 6
		Revised edition no : 0
		Date : 27 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Glycine</h2>		DOC(0)138-141

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal recommendations : When not empty dispose of this container at a hazardous or special waste collection point.
Additional information : This product is not hazardous.

SECTION 14 Transport information

In accordance with ADR / IATA / IMDG

14.1. UN Number

Not applicable

General information : Not classified as dangerous in the meaning of transport regulations.

14.2. UN Proper shipping name

Not applicable.

14.3. Transport Hazard Class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable

SECTION 15 Regulatory information

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

15.1.1. EU-Regulations

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

No REACH Annex XVII restrictions.

Glycine is not on the REACH candidate list.

Glycine is not on the REACH Annex XIV list.

15.1.2 National regulations

Ensure all national / local regulations are observed.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 Other information

Further information The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision Complete SDS revision

End of document