

**Glycine****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.  
King's Lynn, England, PE31 6DJ  
Tel: +44(0)1485 609069  
Web: www.Formedium.com  
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)  
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

**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.

**Glycine****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**

<b>General</b>	:	Seek medical attention if ill effects develop.
<b>Inhalation</b>	:	Remove victim to fresh air.
<b>Skin contact</b>	:	Wash skin with mild soap and water.
<b>Eye contact</b>	:	Rinse with water.
<b>Ingestion</b>	:	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 (CO<sub>2</sub>), Dry chemical powder.**5.2. Special hazards arising from the substance or mixture**

No additional information available.

**5.3. Advice for firefighters**

<b>Precautionary measures fire</b>	:	Wear proper protective equipment.
<b>Firefighting instructions</b>	:	Prevent fire fighting water from entering the environment.

**Glycine****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

**Glycine****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.
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**Glycine****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.

**11.2. Additional Information****Endocrine disrupting properties :**

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.

**Glycine****DOC(0)138-141****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.

**12.7. Endocrine disrupting properties**

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 / Packaging** : When not empty dispose of this container at a hazardous or special waste collection point.

**disposal recommendations :**

**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. U N 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

**Glycine****DOC(0)138-141****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