

Version 1.1

Revision date 01/09/2012/LM-IA

Chemical type	: Substance
Substance name	: Glycine (aminoacetic acid)
CAS No.	: 56-40-6
Product code	: RC-055
Formula	: C2H5NO2
Synonyms	: 2-aminoacetic acid / acetic acid, amino- / aciport / aminoethanoic acid / GLY / glycine / glycocoll / glycolixir / glycosthene / gyn-hydralin / hampshire glycine / l-glycine / padil
Company identification	: G-Biosciences/ Geno Technology, Inc. 9800 Page Avenue St. Louis, MO 63132-1429, USA Tel.1-800-628-7730 http://www.GBiosciences.com
Emergency number	: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)
SECTION: 2. Hazards ident	tification
2.1. Emergency Overview	

Z.I. Energency overview	
Physical state	: Solid
Appearance	: Crystalline solid. Powder
Colour	: White
Odour	: Odourless

### Glycine (aminoacetic acid)(56-40-6)

2.2. OSHA Regulatory Status	
No additional information available	
2.3. Potential health effects	
Symptoms/injuries after inhalation	: AFTER INHALATION OF DUST: Coughing.
Symptoms/injuries after skin contact	: Slight irritation.
Symptoms/injuries after eye contact	: Slight irritation.
Symptoms/injuries after ingestion	: AFTER ABSORPTION OF HIGH QUANTITIES: Nausea.
2.4. Potential environmental effects	

No additional information available

SECTION: 3. Composition/informati	on on i	ngredients	
Name		CAS No.	%
Glycine (aminoacetic acid)		56-40-6	100
4.1. First aid procedures			
First-aid measures general	: If you	ı feel unwell, seek medical advice.	
First-aid measures after inhalation	: Rem	ove the victim into fresh air. Respiratory	/ problems: consu
First-aid measures after skin contact	: Rins	e with water. Soap may be used. Take	victim to a doctor
First-aid measures after eye contact	: Rins persi	e with water. Do not apply neutralizing a sts.	agents. Take victi
First-aid measures after ingestion		e mouth with water. Call Poison Informa or/medical service if you feel unwell.	ation Centre (www
4.2. Note to physicians			
No additional information available			
<b>SECTION: 5. Firefighting measures</b>			
5.1. Flammable properties			
Fire hazard		ECT FIRE HAZARD. Literature reports o azard. INDIRECT FIRE HAZARD. Heat	
Explosion hazard		CT EXPLOSION HAZARD. Its dust is e cloud can be ignited by a spark.	explosive with air.
Reactivity	mone	urning: release of toxic and corrosive g oxide - carbon dioxide). Reacts with chl cts with (strong) oxidizers. Reacts with (	orine bleach: rele

5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Polyvalent foam. ABC powder. Carbon dioxide.
5.3. Protection for firefighters	
Firefighting instructions	: Dilute toxic gases with water spray.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION: 6. Accidental release me	easures
6.1. Personal precautions	
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
6.1.2. For emergency responders No additional information available	
6.2. Environmental precautions	
No additional information available	
6.3. Methods for containment For containment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select
	material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Powdered form: no compressed air for pumping over spills.
6.4. Methods for clean up	
Methods for cleaning up	<ul> <li>Prevent dust cloud formation. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.</li> </ul>
6.5. Other information	
No additional information available	
6.6. Spill or leak statements by type of cher	mical
No additional information available	
SECTION: 7. Handling and storage	
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	<ul> <li>Comply with the legal requirements. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.</li> </ul>
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SECTION: 9. Physical and chemica	I properties
Physical state	: Solid
Appearance	: Crystalline solid. Powder.
Molecular mass	: 75.07 g/mol
Colour	: White.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 5.9 - 6.4
pH solution	: 5%
Melting point	: 232 °C
Solidification point	: No data available
Boiling point	: Not applicable
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: -100 g/m <sup>3</sup>
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.6
Density	: 1595 kg/m³
Solubility	: Soluble in water. Water: 23 g/100ml Ethanol: 0.06 g/100ml
Log Pow	: -3.21 (experimental)
Self ignition temperature	: No data available
Decomposition temperature	: >232 °C
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
VOC content	: 0%
Other properties	: Substance has acid reaction.

### SECTION: 10. Stability and reactivity

### 10.1. Chemical stability

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, ammonia, carbon monoxide - carbon dioxide). Reacts with chlorine bleach: release of (highly) toxic gases/vapours. Reacts with (strong) oxidizers. Reacts with (strong) bases.

### Stable under normal conditions.

10.2. Conditions to avoid	
No additional information available	
10.3. Incompatible materials	
No additional information available	
10.4. Hazardous decomposition products	
No additional information available	
10.5. Possibility of hazardous reactions	
No additional information available	
<b>SECTION: 11. Toxicological informat</b>	tion
Information on toxicological effects	
Acute toxicity	: Not classified

Glycine (aminoacetic acid) (56-40-6)	
LD50 oral rat	7930 mg/kg
Skin corrosion/irritation	: Not classified
	pH: 5.9 - 6.4
Serious eye damage/irritation	: Not classified
	pH: 5.9 - 6.4
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Salety Data Sheet	
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
SECTION: 12. Ecological information	
12.1 Ecotoxicity	
Ecology - air	: Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009). Germany: TA-Luft Klasse 5.2.5/I.
Glycine (aminoacetic acid)(56-40-6)	
LC50 fishes 1	> 5 ppm (24 Hours; LEPOMIS MACROCHIRUS)
LC50 fishes 2	> 5 ppm (24 Hours; CARASSIUS AURATUS)
12.2. 12.2. Persistence and degradability	
Glycine (aminoacetic acid)(56-40-6)	
Persistence and degradability	Readily biodegradable in water. test: 0%, 28d, mitil,OECD 301C.
BOD (% of ThOD)	86 % ThOD
12.3. Bioaccumulation/Accumulation	
Glycine (aminoacetic acid)(56-40-6)	
Log Pow	-3.21 (experimental)
Bioaccumulative potential	Bioaccumulation: not applicable.
12.4. Mobility in environmental media	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION: 13. Disposal consideration	ne
13.1. Waste treatment methods	
Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Recycle/reuse. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. May be discharged to wastewater treatment installation.
Additional information	: LWCA (the Netherlands): KGA category 03.
SECTION: 14. Transport information	
14.1. Basic shipping description	
No additional information available	
14.2 Additional information	
Other information	: No supplementary information available.
State during transport (ADR-RID)	: Rail and road transport: not subject to ADR-RID.
Overlaged from an ext	
Overland transport No additional information available	
Transport by sea No additional information available	
Air transport	
No additional information available	
SECTION: 15. Regulatory information	n
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
No additional information available	
EU-Regulations	
No additional information available	

No additional information available

### **Glycine (aminoacetic acid)**

Safety Data Sheet

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION: 16. Other information**

### NFPA health hazard

: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard NFPA reactivity

- : 1 Must be preheated before ignition can occur.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



#### HMIS III Rating

No additional information available

SDS US (ANSI) GBiosciences