

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 21/07/2011

Revision date: 26/04/2016

Supersedes: 10/10/2013

Version: 4.0

CDNLM-6799

SECTION 1: Identification of the	substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: GLYCINE (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%)	
EC no	: 200-272-2 (Unlabeled)	
CAS No	: 56-40-6 (Unlabeled)	
Product code	: CDNLM-6799	
Formula	: H2*N*CD2*COOH	
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		
Main use category	: Professional use	
Industrial/Professional use spec	: For professional use only.	
1.2.2. Uses advised against No additional information available		
1.3. Details of the supplier of the sa	afety data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA		
USA: 1-800-322-1174 Int: 1-978-749-800 cilsales@isotope.com www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
SECTION 2: Hazards identification	on	
2.1. Classification of the substance	e or mixture	
Classification according to Regulation (Not classified	EC) No. 1272/2008 [CLP]	
Classification according to Directive 67/ Not classified	548/EEC or 1999/45/EC	
Classification (GHS-US) Not classified		
Adverse physicochemical, human health and environmental effects No additional information available		
2.2. Label elements		
Labeling according to Regulation (EC) N No labeling applicable	lo. 1272/2008 [CLP]	
GHS-US labeling		

No labeling applicable

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
GLYCINE (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%) (Main constituent)	(CAS No) 56-40-6 (Unlabeled) (EC no) 200-272-2 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
GLYCINE (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%) (Main constituent)	(CAS No) 56-40-6 (Unlabeled) (EC no) 200-272-2 (Unlabeled)	100	Not classified

Full text of R-, H- and EUH-phrases: see section 16

Name	Product identifier	%	Classification (GHS-US)
GLYCINE (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%) (Main constituent)	(CAS No) 56-40-6 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

3.2. **Mixtures** Not applicable **SECTION 4: First aid measures** 4.1. **Description of first aid measures** First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet. First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician. First-aid measures after eye contact : Flush eye with water for 15 minutes. Get medical attention. First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2. Most important symptoms and effects, both acute and delayed : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after inhalation Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation. Symptoms/injuries after eye contact : Contact may cause eye irritation. : May be harmful if swallowed. Symptoms/injuries after ingestion 4.3. Indication of any immediate medical attention and special treatment needed No additional information available **SECTION 5: Firefighting measures** 5.1. **Extinguishing media** suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. 5.2. Special hazards arising from the substance or mixture No additional information available 5.3. Advice for firefighters **Firefighting instructions** : Wear a self contained breathing apparatus. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personnel : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Emergency procedures Ensure adequate ventilation. Avoid breathing dust.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not let product enter drains.

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6.3. Methods and material for containment and cleaning up			
For containment : Sweep up and shovel. Keep in suitable, closed containers for disposal.			
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.		
7.2. Conditions for safe storage, include	ing any incompatibilities		
Technical measures	: Keep container tightly closed in a cool, dry and well-ventilated place.		
Storage conditions	: Store at room temperature away from light and moisture.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/per	sonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls	Clause Destactive dething Destactive regular Oak senter the distance in		
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.		
Hand protection	: Wear suitable protective clothing and gloves.		
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.		
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.		
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.		
SECTION 9: Physical and chemical	properties		
9.1. Information on basic physical and			
Physical state	: Solid		
Appearance	: Crystalline.		
Molecular mass	: 80.06 g/mol (Labeled)		
Color	: White.		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: 240 °C (464 °F)		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Self ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Log Pow	: No data available		

Log Kow

Viscosity, kinematic Viscosity, dynamic

: No data available : No data available

: No data available

GLYCINE (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%) CDNLM-6799 Safety Data Sheet

Symptoms/injuries after ingestion

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Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Not available.	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	
Under fire conditions: Carbon oxides, nitrogen ox	ides.
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
GLYCINE (13C2, 97-99%; 2,2-D2, 97-99%; 15	N, 97-99%) (56-40-6 (Unlabeled))
LD50 oral rat	7930 mg/kg
ATE (oral)	7930.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
	No data available
Serious eye damage/irritation	: Not classified
	No data available
Respiratory or skin sensitization	: Not available
	No data available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
Specific target organ toxicity (single exposure)	: Not classified
	No data available
Specific target organ toxicity (repeated	: Not classified
exposure)	No data available
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., May cause cyanosis., Shortness of breath, Tremore, Diarrhea, flushing, shivering, dizziness., My cause headache and dizziness., Skin disorders, muscle cramps, tinnitus, Gastrointestinal discomfort.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: Contact may cause eye irritation.
	. May be hermful if availanced

SECTION	SECTION 12: Ecological information		
12.1.	Toxicity		
No additi	onal information available		
12.2.	Persistence and degradability		
GLYCI	NF (13C2 97-99%: 2 2-D2 97-99%: 15N 97-99%) (56-40-6 (Unlabeled))		

: May be harmful if swallowed.

GLYCINE (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%) (56-40-6 (Unlabeled))		
Persistence and degradability	Not available.	
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12.3.	Bioaccumulative potential		
GLYC	INE (13C2, 97-99%; 2,2-D2, 97-99%; 15	N, 97-99%) (56-40-6 (Unlabeled))	
Bioac	cumulative potential	Not available.	
12.4.	Mobility in soil		
GLYC	INE (13C2, 97-99%; 2,2-D2, 97-99%; 15	N, 97-99%) (56-40-6 (Unlabeled))	
Ecolo	gy - soil	Not available.	
12.5.	Results of PBT and vPvB assessme	nt	
No add	itional information available		
12.6.	Other adverse effects		
Other a	dverse effects	: Not available.	
SECT	ION 13: Disposal consideration	S	
13.1.	Waste treatment methods		
Region	al legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.	
Waste	disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
Ecology	/ - waste materials	: Dispose of as unused product.	
SECT	ION 14: Transport information		
In acco	rdance with ADR / RID / ADNR / IMDG / I	CAO / IATA	
14.1.	UN number		
Not app	blicable		
14.2.	UN proper shipping name		
Not app	blicable		
14.3.	Additional information		
Other in	nformation	: No supplementary information available.	
Special	transport precautions	: Not dangerous goods.	
Overland transport			
NU auu	itional information available		
Transn	ort by sea		
	itional information available		
Air trar			
	itional information available		
14.4.	Environmental hazards		
Other in	nformation	: No supplementary information available.	
14.5.	Special precautions for user		
Special	transport precautions	: Not dangerous goods.	
14.6.	14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not app	blicable		
SECT	ION 15: Regulatory information		

15.1. US Federal regulations

No additional information available

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15.2. International regulations

CANADA

GLYCINE (13C2,	97-99%: 2.2-D2	97-99%: 15N	. 97-99%)	(56-40-6	(Unlabeled)
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Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations		
GLYCINE (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%)(56-40-6 (Unlabeled))		
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	

SECTION 16: Other information	
Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product