

GLYCINE-N-FMOC (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/07/2011 Revision date: 25/07/2018 Supersedes: 06/07/2011

Version: 2.0

INA	Ν.4	7052		

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	substance/mixture and of the company/undertaking
Product form	: Substance
Substance name	: GLYCINE-N-FMOC (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%)
EC-No.	: 249-373-3 (Unlabeled)
CAS-No.	: 29022-11-5 (Unlabeled)
Product code	: CDNLM-7853
Formula	: C15*C2H13D2*NO4
Synonyms	: Fmoc-glycine
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	20
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	
2.1. Classification of the substance	or mixture
Classification according to Regulation (I Not classified	EC) No. 1272/2008 [CLP]
Classification according to Directive 67/9 Not classified	548/EEC [DSD] or 1999/45/EC [DPD]
GHS-US classification	

No additional information available

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP] No labeling applicable

GHS-US labeling

No labeling applicable

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7853

Safety Data Sheet

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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-N-FMOC (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97- 99%)	(CAS-No.) 29022-11-5 (Unlabeled) (EC-No.) 249-373-3 (Unlabeled) (EC Index-No.)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

Name	Product identifier	%	GHS-US classification
GLYCINE-N-FMOC (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97- 99%) (Main constituent)	(CAS-No.) 29022-11-5 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

Mixtures 3.2.

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	ŝ
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation.

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7853

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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Do not	allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for containmen	t and cleaning up
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	Provide adequate ventilation to minimize dust and/or vanar concentrations
Precautions for safe handling	Provide adequate ventilation to minimize dust and/or vapor concentrations.
Hygiene measures	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store refrigerated (-5 C - 5 C) and dessicated.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	Wear suitable protective clothing and gloves.
Eye protection	Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls	: Avoid release to the environment.
SECTION 9: Physical and chemical pr	operties
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9.1. Information on basic physical and ch	
9.1. Information on basic physical and ch	emical properties
9.1. Information on basic physical and che Physical state	emical properties Solid
9.1. Information on basic physical and che Physical state Appearance Molecular mass	emical properties Solid Powder

- Odor threshold : No data available
- Relative evaporation rate (butyl acetate=1) : No data available
- : 174 175 °C (345 347 °F) 174 178 °C (345 352 °F) Melting point : No data available Freezing point

Boiling point	: No data available
Flash point	: No data available

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Auto-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	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
0.0 Others information	

9.2. Other information
No additional information available

SECTI	ON 10. Stability and reactivity	
SECH	ON 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 addit	ional information available	
10.4.	Conditions to avoid	
	tional information available	
NO addit		
10.5.	Incompatible materials	
Strong o	oxidizing agents.	
<u> </u>	5 5	
10.6.	Hazardous decomposition products	
Carbon	oxides (CO, CO2). Nitrogen oxides.	

SECTION 11: Toxicological information

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11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	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.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

GLYCINE-N-FMOC (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%) 7853

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4.Mobility in soilNo additional information available	
12.5. Results of PBT and vPvB assessment	t de la constant de l
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging 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.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADI	Ν
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information Other information	No supplementary information available.
Special transport precautions	Not dangerous.
Overland transport	
No additional information available	
Transport by sea No additional information available	
Air transport No additional information available	
14.4. Environmental hazards	
Other information	No supplementary information available.
14.5. Special precautions for user	
	Not dangerous.
14.6. Transport in bulk according to Annex	II of MARPOL 73/78 and the IBC Code
Not applicable	

Not applicable

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SECTION 15: Regulatory information			
15.1. US Federal regulations			
GLYCINE-N-FMOC (13C2, 97-99%; 2,2-D2, 97-9	99%; 15N, 97-99%) (29022-11-5 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		

15.2. International regulations

CANADA

GLYCINE-N-FMOC (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%) (29022-11-5 (Unlabeled))	
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

No additional information available

15.3. US State regulations

GLYCINE-N-FMOC (13C2, 97-99%; 2,2-D2, 97-99%; 15N, 97-99%)(29022-11-5 (Unlabeled))		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List	

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	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance SDS

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