

UREA (13C, 99%; 15N2, 99%; 18O, 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
 Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 CNOLM-8871

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: UREA (13C, 99%; 15N2, 99%; 18O, 99%)	
EC No	200-315-5 (Unlabeled)	
CAS No	: 57-13-6 (Unlabeled)	
REACH registration No	: 01-2119463277-33	
Product code	: CNOLM-8871	
Formula	* *NH2*C*O*NH2	
Synonyms	Carbamide / Carbonyldiamide	
	ince or mixture and uses advised against	
1.2.1. Relevant identified uses		
	: Professional use	
5.,	: For professional use only	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety da	ata sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA		
USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> 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 (EC) No. 1272/2008 [CLP] Not classified		
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified		
GHS-US classification Not classified		
Adverse physicochemical, human health and environmental effects No additional information available		
2.2. Label elements		
Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable		

GHS-US labelling

No labelling 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
UREA (13C, 99%; 15N2, 99%; 18O, 99%)	(CAS No) 57-13-6 (Unlabeled) (EC No) 200-315-5 (Unlabeled) (REACH-no) 01-2119463277-33	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
UREA (13C, 99%; 15N2, 99%; 18O, 99%)	(CAS No) 57-13-6 (Unlabeled) (EC No) 200-315-5 (Unlabeled) (REACH-no) 01-2119463277-33	100	Not classified

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

Name	Product identifier	%	GHS-US classification
UREA (13C, 99%; 15N2, 99%; 18O, 99%) (Main constituent)	(CAS No) 57-13-6 (Unlabeled)	100	Not classified

Full text of H-statements: see section 16

3.2. **Mixtures**

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measure	95
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	effects, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate me	edical attention and special treatment needed
No additional information available	
SECTION 5: Fire-fighting measu	res
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	e 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 r	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid breathing vapours, mist, gas. Avoid dust formation.
6.1.2. For emergency responders	
No additional information available	
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6.2. Environmental preca	utions	
Prevent entry to sewers and put		
6.3. Methods and materia	al for containment	and cleaning up
For containment		Take up mechanically (sweeping, shovelling) 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 s	ections	
No additional information availab		
SECTION 7: Handling ar		
7.1. Precautions for safe		
Precautions for safe handling		Provide adequate ventilation to minimize dust and/or vapour concentrations.
Hygiene measures	•	Wash hands and other exposed areas with mild soap and water before eating, drinking or
nygione medealee		smoking and when leaving work.
7.2. Conditions for safe s	storage, including	any incompatibilities
Technical measures	:	Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	:	Store at room temperature away from light and moisture.
7.3. Specific end use(s)		
No additional information availab	ole	
SECTION 8: Exposure c	ontrols/persor	al protection
8.1. Control parameters		
	. 180 . 00%) (57-13	+ 6 (I Inlaboled))
UREA (13C, 99%; 15N2, 99% USA OSHA	, 180, 99%) (57-13 Remark (OSHA)	Urea CAS-No. 57-13-6 TWA 10.0 mg/m3 USA.
		Workplace Environmental Exposure Levels (WEEL)
	I	
8.2. Exposure controls Appropriate engineering controls	. .	Wash hands and other exposed areas with mild soap and water before eating, drinking or
Appropriate engineering controls		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 OF Physical en	d chomical pr	onortios
SECTION 9: Physical an		
9.1. Information on basic Physical state		Solid
Appearance	-	Powder.
Molecular mass		65.03 g/mol (Labeled)
Colour	•	White.
Odour	:	No data available
Odour threshold	:	No data available
pH	:	7.5 - 9.5 at 480 g/l at 25 °C (77 °F)
Relative evaporation rate (butyla	acetate=1) :	No data available
Melting point	:	132 - 135 °C (270 - 275 °F)
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)	:	No data available

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Vapour pressure	: 0.009 hPa (0.007 mmHg) at 20 °C (68 °F)	
Relative vapour density at 20 °C	: No data available	
Relative density	: 1.335 g/cm3 at 25 °C (77 °F)	
Solubility	: Water: 480 g/l at 20 °C (68 °F) - completely soluble	
Log Pow	: -2.591.59	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising 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. Possibility of hazardous reactions 10.3. No additional information available 10.4. **Conditions to avoid** No additional information available 10.5. Incompatible materials Strong oxidizing agents. 10.6. Hazardous decomposition products Carbon oxides (CO, CO2). Nitrogen oxides. **SECTION 11: Toxicological information**

11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
UREA (13C, 99%; 15N2, 99%; 18O, 99%) (57-13-6 (Unlabeled))		
LD50 oral rat	8471 mg/kg	
Skin corrosion/irritation	: Skin. rabbit. No skin irritation	
	pH: 7.5 - 9.5 at 480 g/l at 25 °C (77 °F)	
Serious eye damage/irritation	: Eyes. rabbit. No eye irritation	
	pH: 7.5 - 9.5 at 480 g/l at 25 °C (77 °F)	
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	: 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/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.	
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.	
Symptoms/injuries after eye contact	: May cause eye irritation.	
Symptoms/injuries after ingestion	: May be harmful if swallowed.	

SECTIO	DN 12: Ecological information
12.1.	Toxicity

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UREA (13C, 99%; 15N2, 99%; 18O, 99%) (57-13-6 (Unlabeled))		
LC50 fish 1 EC50 Daphnia 1	17500 mg/l Poecilia reticulata (guppy) - 96 h 3910 mg/l Daphnia magna (Water flea) - 48 h	
	- 55 10 mg/1 Daphinia magna (water lica) = 40 11	
2.2. Persistence and degradability		
lo additional information available		
2.3. Bioaccumulative potential		
UREA (13C, 99%; 15N2, 99%; 18O, 99%) (57-	I3-6 (Unlabeled))	
Log Pow	-2.591.59	
2.4. Mobility in soil		
No additional information available		
2.5. Results of PBT and vPvB assessmer)t	
No additional information available		
2.6. Other adverse effects		
Dther adverse effects	: Disposal must be done according to official regulations. May cause long lasting harmful effects to aquatic life. Avoid release to the environment.	
SECTION 13: Disposal consideration	S	
3.1. Waste treatment methods		
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Loca 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.	
cology - waste materials	: Dispose of as unused product.	
SECTION 14: Transport information		
n accordance with ADR / RID / IMDG / IATA / AD	N N	
I4.1. UN number		
Not applicable		
14.2. UN proper shipping name		
Not applicable		
4.3. Additional information		
Other information	: No supplementary information available.	
Special transport precautions	: Not classified as dangerous in the meaning of transport regulations.	
Overland transport		
No additional information available		
Fransport by sea		
No additional information available		
Air transport		
No additional information available		
4.4. Environmental hazards		
Other information	: No supplementary information available.	
4.5. Special precautions for user		
Special transport precautions	: Not classified as dangerous in the meaning of transport regulations.	
14.6. Transport in bulk according to Anne	x II of MAPPOL 72/78 and the IPC Code	
	x II of MARPOL 73/78 and the IBC Code	

Not applicable

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SECTION 15: Regulatory information		
15.1. US Federal regulations		
UREA (13C, 99%; 15N2, 99%; 18O, 99%) (57-13-6 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	

15.2. International regulations

CANADA

UREA (13C, 99%; 15N2, 99%; 18O, 99%) (57-13-6 (Unlabeled))
Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

UREA (13C, 99%; 15N2, 99%; 18O, 99%)(57-13-6 (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 dire 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.
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