

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 06451 Issue date: 11/2/2023 Revision date: 11/2/2023 Supersedes version of: 4/9/2015 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form Trade name EC-No. CAS-No. Product code Formula Chemical structure	Substance UREA MOLECULAR BIOLOGY GRADE 200-315-5 57-13-6 06451 CO(NH2)2 $\prod_{n=1}^{1} NH_2 - NH_2$
Synonyms	: Carbamide, Carbonyldiamide, Diaminomethanal, Diaminomethanone
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
<ul> <li>1.2.1. Relevant identified uses</li> <li>Use of the substance/mixture</li> <li>1.2.2. Uses advised against</li> <li>No additional information available</li> </ul>	: Laboratory chemicals, Manufacture of substances
1.3. Details of the supplier of the safety d	ata sheet
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com	
1.4. Emergency telephone number	
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

## Nordic countries regulation

## Denmark

MAL code

: 00-3 (Executive Order No. 301 from 1993)

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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SECTION 3: Composition/information on ingredients						
3.1. Substances						
Substance type Name CAS-No. EC-No.	: Mono-constituent : UREA MOLECULAR : 57-13-6 : 200-315-5					
Name	Product identifier	%				
UREA MOLECULAR	CAS-No.: 57-13-6	100				

EC-No.: 200-315-5

### 3.2. Mixtures

Not applicable

SECTION 4: First aid measures						
4.1. Description of first aid measures						
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.					
First-aid measures after skin contact	<ul> <li>Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water.</li> </ul>					
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.					
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell.					

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the subst	tance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION	6: Acc	idental r	eleas	se me	asures	S				

## 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Evacuate unnecessary personnel.

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6.1.2. For emergency responders						
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".					
Emergency procedures	Stop release.					
6.2. Environmental precautions						
Avoid release to the environment.						
6.3. Methods and material for containment and cleaning up						
Methods for cleaning up	: Mechanically recover the product. Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.					
Other information	Dispose of materials or solid residues at an authorized site.					
6.4. Reference to other sections						

#### For further information refer to section 13.

SECTION 7: Handling and store	age
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Do not ge in eyes, on skin, or on clothing.
Hygiene measures	<ul> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture. Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

#### **Eye protection:** Chemical goggles or safety glasses

## 8.2.2.2. Skin protection

Skin and body protection: Wear a mask

#### Hand protection:

Protective gloves

## 8.2.2.3. Respiratory protection

**Respiratory protection:** Wear appropriate mask

## 8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: White.
Appearance	: Crystalline powder.
Molecular mass	: 60.06 g/mol
Odour	: ammonia like.
Odour threshold	: Not available
Melting point	: 131 – 134 °C
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 132 °C
pH	: 7.5 – 9.5 at 25°C
pH solution concentration	: 10 %
Viscosity, kinematic	: Not applicable
Solubility	: Water: 480 g/l at 20°C - completely soluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: -2.59
Vapour pressure	: 0.009 hPa at 20 °C
Vapour pressure at 50°C	: Not available
Density	: 1.335 g/cm³
Relative density	: Not available
Relative vapour density at 20°C	: 2.07
Particle size	: Not available

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#### 9.2. Other information

- 9.2.1. Information with regard to physical hazard classes
- No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** 

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid** 

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **SECTION 11: Toxicological information** 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity (oral) : Not classified Acute toxicity (dermal) Not classified : Acute toxicity (inhalation) : Not classified Skin corrosion/irritation : Not classified pH: 7.5 - 9.5 at 25°C Serious eye damage/irritation : Not classified pH: 7.5 – 9.5 at 25°C 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 **UREA MOLECULAR BIOLOGY GRADE (57-13-6)** Viscosity, kinematic Not applicable

11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse
Hazardous to the aquatic environment, short-term	effects in the environment. : Not classified
(acute) Hazardous to the aquatic environment, long–term (chronic)	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
UREA MOLECULAR BIOLOGY GRADE (57-	-13-6)
Partition coefficient n-octanol/water (Log Pow)	-2.59
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RID	
14.1. UN number or ID number Not regulated for transport	
<b>14.2. UN proper shipping name</b> Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA) Proper Shipping Name (ADN)	: Not regulated : Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR)	: Not regulated
IMDG Transport hazard class(es) (IMDG)	: Not regulated
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IATA Transport hazard class(es) (IATA)	: Not regulated				
ADN Transport hazard class(es) (ADN)	: Not regulated				
RID Transport hazard class(es) (RID)	: Not regulated				
14.4. Packing group					
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	<ul> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> </ul>				
14.5. Environmental hazards					
Other information	: No supplementary information available				
14.6. Special precautions for user					
Overland transport Not regulated					
Transport by sea Not regulated					
Air transport Not regulated					
Inland waterway transport Not regulated					
Rail transport Not regulated					
14.7. Maritime transport in bulk according	to IMO instruments				
Not applicable					
SECTION 15: Regulatory information					
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture				
15.1.1. EU-Regulations					
REACH Annex XVII (Restriction List)					
Not listed on REACH Annex XVII					
REACH Annex XIV (Authorisation List)					
Not listed on REACH Annex XIV (Authorisation List	)				
REACH Candidate List (SVHC) Not listed on the REACH Candidate List					
PIC Regulation (Prior Informed Consent)					
Not listed on the PIC list (Regulation EU 649/2012)					
POP Regulation (Persistent Organic Pollutants)					
Not listed on the POP list (Regulation EU 2019/102	1)				

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## Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)		WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 118). Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	The substance is not listed The substance is not listed The substance is not listed The substance is not listed
Denmark MAL code	:	00-3 (Executive Order No. 301 from 1993)
15.2. Chemical safety assessment		

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and a	Abbreviations and acronyms:				
ADN	DN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways				
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road				
ATE	Acute Toxicity Estimate				
BCF	Bioconcentration factor				
BLV	Biological limit value				
BOD	Biochemical oxygen demand (BOD)				
COD	Chemical oxygen demand (COD)				
DMEL	Derived Minimal Effect level				
DNEL	Derived-No Effect Level				
EC-No.	European Community number				
EC50	Median effective concentration				
EN	European Standard				
IARC	International Agency for Research on Cancer				
ΙΑΤΑ	International Air Transport Association				
IMDG	International Maritime Dangerous Goods				
LC50	Median lethal concentration				
LD50	Median lethal dose				
LOAEL	Lowest Observed Adverse Effect Level				

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Abbreviations and acronyms:	
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Safety Data Sheet (SDS), EU

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.