



SDS – SAFETY DATA SHEET

UREIA

SDS nº 155.60.0

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De acordo com a ABNT NBR 14725: 2023

SECTION 1: Identification

1.1. GHS Product identifier

Product form	: Substance
Substance type	: Mono-constituent
Trade name	: UREIA
Chemical name	: Urea
CAS-No.	: 57-13-6
Formula	: CH ₄ N ₂ O
Product code	: 155.60.0

1.2. Other means of identification

Other means of identification	: Urea
EC-No.	: 200-315-5

1.3. Recommended use of the chemical and restrictions on use

Recommended use	: Industrial use
Restrictions on use	: This product should not be used in applications other than those mentioned above without first consulting the supplier.

1.4. Supplier's details

USQUÍMICA DO BRASIL LTDA
Rua da Lagoa, 431 – Cumbica – Guarulhos – SP
Telefone: (11) 3821-7000 – Tronco chave

1.5. Emergency phone number

Emergency number	: (0800) 0111-767 - (0800) 7071-767 SUATRANS
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SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725: 2023)

Chemical product not classified as hazardous according to ABNT NBR 14725

2.2. GHS Label elements, including precautionary statements

GHS BR labelling

Precautionary statements (GHS BR)	Not required
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2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type	: Mono-constituent
Formula	: CH ₄ N ₂ O



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Name	GHS Product identifier	%	Classification according to GHS BR (ABNT NBR 14725: 2023)
UREIA (Main constituent)	CAS-No.: 57-13-6	100	Not classified

Comments : Impurities contributing to the hazard: Free Ammonia - 72.0–129.6 ppm (maximum 275 ppm) – CAS: 7664-41-7.

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth out with water.
Self protection of the first-aid	: First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).

4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

4.3. Indication of any immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. earth, sand, dry chemical powder or foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.



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5.3. Special protective actions for fire-fighters

- Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Wear recommended personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

- For containment : Stop leak without risks if possible. Using a clean shovel, put the material in a dry container and cover without compressing it.
- Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Keep only in original container. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Protect from sunlight.
- Packaging materials : Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.



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8.3. Individual protection measures

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Wear security glasses which protect from splashes

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline solid in the form of beads at 20°C and 101 kPa.
Colour	: white
Odour	: Odorless or a faint odor of ammonia
Odour threshold	: Not available
pH	: 7.2 Source: HSDB
Melting point	: 132.7 – 135 °C Source: ICSC
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
Flammability	: Not available
Vapour pressure	: 0.000012 mm Hg at 25 °C Source: National Library of Medicine/Hazardous Substances Data Bank
Vapour pressure at 50°C	: Not available
Relative vapour density at 20°C	: 2.07 Source: Calculated value based on molecular weight and mean molecular weight of air
Relative density	: 1.323 Source: HSDB
Density	: Not available
Solubility	: Water: 545000 mg/l at 25 °C Source: ChemIDplus
Partition coefficient n-octanol/water (Log Pow)	: -2.11 Source: HSDB
Partition coefficient n-octanol/water (Log Kow)	: Not available
Viscosity, kinematic	: Not applicable



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Viscosity, dynamic	: 1.78 cP Source: OECD Screening Information Data Set
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle specific surface area	: Not available

9.2. Data relevant with regard to physical hazard classes

No additional information available

9.3. Further safety characteristics

No additional information available

SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions of use.
Conditions to avoid	: Extremely high or low temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: No additional information available.
Possibility of hazardous reactions	: None under normal use.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Handling temperature	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available

UREIA (57-13-6)

LD50 oral rat	8470 mg/kg Source: GESTIS
Skin corrosion/irritation	: Not available pH: 7.2 Source: HSDB
Serious eye damage/irritation	: Not available pH: 7.2 Source: HSDB
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available



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11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

UREIA (57-13-6)

LC50 - Fish [1]	22500 mg/l Source: OECD Screening Information Data Set
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12.2. Persistence and degradability

UREIA (57-13-6)

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

UREIA (57-13-6)

Partition coefficient n-octanol/water (Log Pow)	-2.11 Source: HSDB
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Hazardous to the ozone layer	: Not available
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SECTION 13: Disposal considerations

Waste treatment methods	: Must follow special treatment according to local regulation.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.



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SECTION 14: Transport information

14.1 National and international Regulations

Overland transport

UN-No. (ANTT)	: Not applicable
Proper Shipping Name (ANTT)	: Not applicable
Class (ANTT)	: Not applicable
Subsidiary risk (ANTT)	: Not applicable
Risk Number (ANTT)	: Not applicable
Packing group (ANTT)	: Not applicable
Special provisions (ANTT)	: Not applicable

Transport by sea

UN-No. (IMDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Class (IMDG)	: Not applicable
Subsidiary hazard (IMDG)	: Not applicable
Packing group (IMDG)	: Not applicable
EmS-No. (Fire)	: Not applicable
EmS-No. (Spillage)	: Not applicable
Special provisions (IMDG)	: Not applicable

Air transport

UN-No. (IATA)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Class (IATA)	: Not applicable
Subsidiary hazards (IATA)	: Not applicable
Packing group (IATA)	: Not applicable
Special provisions (IATA)	: Not applicable

14.2 Other information

No additional information available

SECTION 15: Regulatory information

15.1. National regulations

Brazil Local Regulations	: Standard ABNT NBR 14725. Federal Decree no. 10.088, of 5 November 2019 – Promulgates Convention no. 170 of the ILO, relating to Safety in the Use of Chemicals in the Workplace, ratified by the Federative Republic of Brazil. Ministerial Order no. 2.770, of 5 September 2022 – Approves the new wording of Regulatory Standard No. 26 Federal Decree no. 96.044, of 18 May 1988 - Approves Regulations for Road Transportation of Hazardous Materials Resolution no. 5998, of 03 November 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures. Law No. 12.305, of August 2, 2010 (National Policy on Solid Waste)
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SECTION 16: Other information

Safety Data Sheet (SDS), Brazil



SDS prepared by **ViaBrasil Cafasso** – <http://cafasso.com.br>



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This information is based on our current knowledge and is intended to describe the product solely with regard to health, safety, and environmental requirements. Therefore, it should not be construed as a guarantee of any specific product properties.

Prepared by: ViaBrasil Cafasso Consulting on the Transportation of Dangerous Goods

Signed by:

MARIA CAFASSO

Consultant and specialist in SDS preparation

Member of the ABNT CB10 and CB16 committee

REFERENCES:

[ABNT NBR 14725] – Safety Data Sheet (SDS)

[RESOLUTION No. 5998/22 ANTT] National Land Transportation Agency – Updates the Regulation for the Road Transportation of Dangerous Goods, approves its Supplementary Instructions, and contains other provisions.

[NR-26 (MTE)] – Safety Signage.

[HSNO] NEW ZEALAND. HSNO Chemical Classification and Information Database (CCID)

[ECHA] European Union. ECHA European Chemical Agency

[LAND, RAILWAYS, ROADS]: National Land Transport Agency (ANTT);

WATERWAY (SEA, RIVER, LAKE): International Maritime Dangerous Goods Code (IMDG code); Standard 5 of the Directorate of Ports and Coasts of the Ministry of the Navy (DPC); National Waterway Transport Agency (ANTAQ);

AIR: International Civil Aviation Organization - Technical Instructions (ICAO-TI); International Air Transport Association - Dangerous Goods Regulations (IATA-DGFT); National Civil Aviation Agency (ANAC).

*Abbreviations:

NA: Not Applicable

ND: Not Available

OSHA: Occupational Safety and Health Administration

LD50: Lethal dose to 50% of an infected population

LC50: Lethal concentration to 50% of an infected population

CAS: Chemical Summary Service

TLV-TWA: Allowable time-weighted average concentration for an 8-hour workday

TLV-STEL: Short-term exposure limit-maximum allowable concentration for 15 minutes of continuous exposure

ACGIH: An organization of staff from government agencies or educational institutions engaged in occupational safety and health programs.

ACGIH: Develops and publishes exposure limits for hundreds of chemicals and physical agents.

PEL: Maximum allowable concentration of airborne contaminants to which most workers can be repeatedly exposed 8 hours a day, 40 hours a week, during their workday (30 years) without adverse health effects. OSHA: US federal agency with authority to regulate and enforce safety and health regulations for industries and businesses in the US.

IMDG: International Maritime Code for Dangerous Goods – international code for the transportation of hazardous materials by sea.

DMEL: Derived Minimum Effect Level

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration.



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ILO - International Labor Organization

MTE - Ministry of Labor and Employment