



USIQUÍMICA

# SDS – SAFETY DATA SHEET

**AUS 40**

SDS nº

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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 : AUS 40  
Chemical name : Urea  
CAS-No. : 57-13-6  
Formula : CH<sub>4</sub>N<sub>2</sub>O  
Product code : -

### 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

No additional information available

### 1.4. Supplier's details

USIQUÍMICA 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

## 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

### 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<sub>4</sub>N<sub>2</sub>O



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| Name                         | GHS Product identifier | %   | Classification according to GHS BR (ABNT NBR 14725: 2023) |
|------------------------------|------------------------|-----|---|
| AUS 40<br>(Main constituent) | CAS-No.: 57-13-6       | 100 | Not classified  |

## 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-aiders   | : 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. |

### 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. |
|---------------------------|--|



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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.

### 8.3. Individual protection measures

#### Personal protective equipment:

Wear recommended personal protective equipment.





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## 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   |
| Colour  | : Not available   |
| Odour   | : Not available   |
| 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  |
| 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   |



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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

#### AUS 40 (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

### 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.



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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 effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified.

Hazardous to the aquatic environment, long-term (chronic) : Not classified.

#### AUS 40 (57-13-6)

LC50 - Fish [1] 22500 mg/l Source: OECD Screening Information Data Set

### 12.2. Persistence and degradability

#### AUS 40 (57-13-6)

Persistence and degradability Not rapidly degradable

### 12.3. Bioaccumulative potential

#### AUS 40 (57-13-6)

Partition coefficient n-octanol/water (Log Pow) -2.11 Source: HSDB

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Hazardous to the ozone layer : Not available

## 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.

## 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



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

## SECTION 16: Other information

Safety Data Sheet (SDS), Brazil

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:



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



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[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.

ILO - International Labor Organization

MTE - Ministry of Labor and Employment