



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
United States of America

Issuing Date 07-Jul-2023

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Revision Number 3

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

Product identifier

Other means of identification

Product Code(s) 443925-5400025
Product-ID 443925
Product Name UREA GRANULAR 46-0-0

Item

1010125457601 --- 50KG --- UREA 46 GRANULAR GRADE B
101005808G001 --- 500KG BB FR --- UREA 46 GRANULAR GRADE B
1010025457601 --- 50KG --- UREA 46 GRANULAR GRADE B
101012802E501 --- 25KG - 1500KG GR --- UREA 46 GRANULAR GRADE B
1010023129201 --- BULK --- UREA 46 GRANULAR GRADE B
1010257982701 --- 2000LB BB --- UREA 46 GRANULAR GRADE B
101015808G001 --- 500KG BB FR --- UREA 46 GRANULAR GRADE B
1010157661801 --- 600KG BB --- UREA 46 GRANULAR GRADE B
101005127C701 --- 600KG BB IT --- UREA 46 GRANULAR GRADE B
1010123129201 --- BULK --- UREA 46 GRANULAR GRADE B
1010025401701 --- BB --- UREA 46 GRANULAR GRADE B
1010057661801 --- 600KG BB --- UREA 46 GRANULAR GRADE B
101015720C901 --- 50KG IT --- UREA 46 GRANULAR GRADE B
1010156911501 --- 500KG BB --- UREA 46 GRANULAR GRADE B
101015626B601 --- 600KG BB FR --- UREA 46 GRANULAR GRADE B
101015127C701 --- 600KG BB IT --- UREA 46 GRANULAR GRADE B
1010139011601 --- 800KG BB --- UREA 46 GRANULAR GRADE B
1010125401701 --- BB --- UREA 46 GRANULAR GRADE B
101005720C901 --- 50KG IT --- UREA 46 GRANULAR GRADE B
1010056911501 --- 500KG BB --- UREA 46 GRANULAR GRADE B
101005626B601 --- 600KG BB FR --- UREA 46 GRANULAR GRADE B

Technical Name UREA 46 GRAN B

Recommended use of the chemical and restrictions on use

Recommended use Fertilizers Industrial Professional

Restrictions on use Consumer use

Details of the supplier of the safety data sheet

Supplier Address

EuroChem Group AG
Baarerstrasse 37
CH-6300 Zug - Switzerland
Phone +41 41 727 1600
Fax +41 41 727 7606

E-mail ra.sds@eurochemgroup.com

Emergency telephone number

Emergency Telephone CHEMTREC
+1 703-741-5970 (Northern Virginia)
1-800-424-9300 (Toll Free)

2. Hazard(s) identification**Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified (HNOC)

Not applicable

Label elements**Hazard statements**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other information

No information available.

3. Composition/information on ingredients**Substance**

Not applicable.

Mixture

| Chemical name | CAS No | Weight-% | Trade secret |
|---------------|---------|----------|--------------|
| Urea | 57-13-6 | >98-100 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures**Description of first aid measures**

| | |
|--------------|--|
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | Wash skin with soap and water. |
| Ingestion | Rinse mouth. |

Most important symptoms and effects, both acute and delayed

| | |
|---------------------|---------------------------|
| Symptoms | No information available. |
| Effects of Exposure | No information available. |

Indication of any immediate medical attention and special treatment needed

| | |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

5. Fire-fighting measures

| | |
|--|--|
| Suitable Extinguishing Media Large Fire | Water spray or fog. CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
| Specific hazards arising from the chemical | May emit toxic fumes under fire conditions. |
| Hazardous combustion products | Carbon oxides. Ammonia. Nitrogen oxides (NOx). May emit toxic fumes under fire conditions. |
| Explosion data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |
| Special protective equipment and precautions for fire-fighters | Do not add water to contents while in a container because of violent reaction and possible flash fire. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. |

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

| | |
|----------------------|------------------------------|
| Personal precautions | Ensure adequate ventilation. |
|----------------------|------------------------------|

Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. |

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep in a dry, cool and well-ventilated place. Partly used or damaged bags should be closed well. Protect from moisture.

8. Exposure controls/personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/face protection Use eye protection according to EN 166. Tight sealing safety goggles.

Hand protection Wear suitable gloves tested to EN 374. Rubber gloves. Nitrile rubber. Butyl rubber. Impervious gloves.

Skin and body protection Long sleeved clothing. Protective shoes or boots.

Respiratory protection Half-face mask. (FFP1).

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Thermal hazards None under normal processing.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|-----------------------|--------------------------|
| Physical state | Solid |
| Appearance | Granules |
| Color | white |
| Odor | Odorless |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| pH | > 9.5 | 10% @ 10°C |
| pH (as aqueous solution) | | None known |
| Melting point / freezing point | 133 °C / 271.4 °F | |
| Initial boiling point and boiling range | No data available | Not applicable |
| Flash point | No data available | Not applicable |
| Evaporation rate | No data available | Not applicable |

| | | |
|---|-------------------|----------------|
| Flammability | | Not flammable |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapor pressure | 0.002 Pa | @ 25 °C |
| Relative vapor density | No data available | None known |
| Relative density | 1.33 | @ 20 °C |
| Water solubility | No data available | @ 20 °C |
| Solubility(ies) | Soluble in water | |
| Partition coefficient | -1.73 | @ 20 °C |
| Autoignition temperature | 223 °C / 433.4 °F | |
| Decomposition temperature | | None known |
| Kinematic viscosity | No data available | Not applicable |
| Dynamic viscosity | No data available | Not applicable |

Other information

| | |
|-----------------------------|--------------------------|
| Explosive properties | Not an explosive |
| Oxidizing properties | Non-oxidizing |
| Softening point | No information available |
| Molecular weight | No information available |
| VOC content | No information available |
| Liquid Density | No information available |
| Bulk density | 670 |

10. Stability and reactivity

| | |
|---|--|
| Reactivity | None under normal processing. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Hazardous polymerization | None under normal processing. |
| Conditions to avoid | See section 7 for more information. |
| Incompatible materials | Strong oxidizing agents, strong acids, and strong bases. Calcium hydroxide. Sodium hypochlorite. |
| Hazardous decomposition products | Nitrogen oxides (NOx). Carbon dioxide (CO2). Ammonia. |

11. Toxicological information**Information on likely routes of exposure**

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. |
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|---------------------------|
| Symptoms | No information available. |
|-----------------|---------------------------|

Acute toxicity**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|-------------------------------|-----------------|
| ATEmix (oral) | 99,999.00 mg/kg |
| ATEmix (dermal) | 99,999.00 mg/kg |
| ATEmix (inhalation-gas) | 99,999.00 ppm |
| ATEmix (inhalation-vapor) | 99,999.00 mg/l |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------|----------------------|-------------|-----------------|
| Urea 57-13-6 | = 8471 mg/kg (Rat) | - | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information**Ecotoxicity**

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|-------------------------|----------------------------|-----------------------|
| Urea | - | LC50: 16200 - 18300mg/L | - | EC50: =3910mg/L (48h, |

| | | |
|---------|----------------------------|----------------|
| 57-13-6 | (96h, Poecilia reticulata) | Daphnia magna) |
|---------|----------------------------|----------------|

Persistence and degradability No information available.

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|-----------------|-----------------------|
| Urea 57-13-6 | -1.73 |

Mobility Soluble in water.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Fertilizer. Controlled application to agricultural soil.

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number U122

14. Transport information

DOT Not regulated

15. Regulatory information

International Inventories

TSCA Contact supplier for inventory compliance status.

DSL/NDSL Contact supplier for inventory compliance status.
EINECS/ELINCS Contact supplier for inventory compliance status.
ENCS Contact supplier for inventory compliance status.
IECSC Contact supplier for inventory compliance status.
KECL Contact supplier for inventory compliance status.
PICCS Contact supplier for inventory compliance status.
AIC Contact supplier for inventory compliance status.
NZIoC Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--------------------|------------|---------------|--------------|
| Water 7732-18-5 | - | - | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

| | | | | |
|-----------------------------------|----------------------------------|-----------------------|---------------------------|------------------------------|
| NFPA | Health hazards 2 | Flammability 1 | Instability 0 | Special hazards - |
| HMIS | Health hazards 2* | Flammability 1 | Physical hazards 0 | Personal protection X |
| <i>Chronic Hazard Star Legend</i> | <i>* = Chronic Health Hazard</i> | | | |

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 07-Jul-2023
Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet