

Safety Data Sheet

Urea 40% Solution

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

1.1. Product identifier

Trade name: Urea 40% Solution

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Functional fluids.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Malik Energy A/S
Address: Göteborgvej 18
Zip code: 9200
City: Ålborg
Country: DENMARK
E-mail: sales@malik.dk
Phone: +45 96 31 39 10
Homepage: <https://malikenergy.dk>

1.4. Emergency Telephone Number

Malik Energy A/S: +45 96 31 39 10

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

Most serious harmful effects: May cause slight irritation to the skin and eyes.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.
Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Contains no substances subject to reporting requirements.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Safety Data Sheet

Urea 40% Solution

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| Ingestion: | Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort. |
| Skin contact: | Remove contaminated clothing. Wash the skin with water. Seek medical advice in case of persistent discomfort. |
| Eye contact: | Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist. |
| Burns: | Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained. |
| General: | When obtaining medical advice, show the safety data sheet or label. |

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

May cause slight irritation to the skin and eyes.

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: The product is not directly flammable. Choose extinguishing agents based on the surrounding fire.

5.2. Special hazards arising from the substance or mixture

The product decomposes when combusted and the following toxic gases can be formed: ammonia/ Nitrous gases.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stop leak if this can be done without risk. Wear gloves. Wear safety goggles if there is a risk of eye splash. Provide good ventilation.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

Safety Data Sheet

Urea 40% Solution

7.1. Precautions for safe handling

Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely out of reach of children and not together with food, feed, medicine and the like. Keep in tightly closed original packaging. Store in a dry, cool, well-ventilated area. Do not store with the following: sodium hypochlorite, calcium hypochlorite, nitrogen-trichloride- Avoid direct sunlight.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements.

Legal basis: Commission Directive 2000/39/EC (Occupational Exposure Limits) as subsequently amended. Last amended by Commission Directive 2019/1831/EU. Directive 2004/37/EC (Exposure to carcinogens or mutagens at work) as subsequently amended. Last amended by Directive 2022/431/EU. Resolution 2019/2182(INL) (Protecting workers from asbestos) as subsequently amended. Last amended by resolution 2022/C 184/03.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below. Use the product under well-ventilated conditions.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: Plastic or rubber gloves recommended.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Parameter | Value/unit |
|------------|-------------------------------------|
| State | Liquid |
| Colour | Colourless |
| Odour | Weak |
| Solubility | Miscible with the following: Water. |

| Parameter | Value/unit | Remarks |
|---|------------|---------|
| Odour threshold | No data | |
| Melting point | 0 °C | |
| Freezing point | 0 °C | |
| Initial boiling point and boiling range | No data | |
| Flammability (solid, gas) | No data | |
| Flammability limits | No data | |

Safety Data Sheet

Urea 40% Solution

| | | |
|---------------------------------------|------------------------|-----------|
| Explosion limits | No data | |
| Flash Point | No data | |
| Auto-ignition temperature | No data | |
| Decomposition temperature | 100 °C | |
| pH (solution for use) | No data | |
| pH (concentrate) | 9.8 - 10 | |
| Kinematic viscosity | No data | |
| Viscosity | No data | |
| Partition coefficient n-octanol/water | No data | |
| Vapour pressure | < 23 hPa | |
| Density | 1.11 g/cm ³ | |
| Relative density | No data | |
| Vapour density | < 1 | (Air = 1) |
| Relative density (sat. air) | No data | |
| Particle characteristics | No data | |

9.2. Other information

| Parameter | Value/unit | Remarks |
|----------------------|------------|----------------|
| Explosive properties | | Non-explosive |
| Oxidising properties | | Non-oxidising. |

SECTION 10: Stability and reactivity

10.1. Reactivity

By reaction with sodium hypochlorite and calcium hypochlorite, nitrogen-trichloride is formed. The reaction progress may be explosive.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

By reaction with sodium hypochlorite and calcium hypochlorite, nitrogen-trichloride is formed.

10.6. Hazardous decomposition products

Nitrous gases/ Phosphorous oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral: Ingestion may cause discomfort. The product does not have to be classified. Test data are not available.

Safety Data Sheet

Urea 40% Solution

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|---|---|
| Acute toxicity - dermal: | The product does not have to be classified. Test data are not available. |
| Acute toxicity - inhalation: | The product does not have to be classified. Test data are not available. |
| Skin corrosion/irritation: | May cause slight irritation. The product does not have to be classified. Test data are not available. |
| Serious eye damage/eye irritation: | Temporary irritation. The product does not have to be classified. Test data are not available. |
| Respiratory sensitisation or skin sensitisation: | The product does not have to be classified. Test data are not available. |
| Germ cell mutagenicity: | The product does not have to be classified. Test data are not available. |
| Carcinogenic properties: | The product does not have to be classified. Test data are not available. |
| Reproductive toxicity: | The product does not have to be classified. Test data are not available. |
| Single STOT exposure: | The product does not have to be classified. Test data are not available. |
| Repeated STOT exposure: | The product does not have to be classified. Test data are not available. |
| Aspiration hazard: | The product does not have to be classified. Test data are not available. |

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

The product does not have to be classified. Test data are not available.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

Safety Data Sheet

Urea 40% Solution

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

Category of waste: EWC code: Depends on line of business and use, for instance 06 10 99 wastes not otherwise specified

Absorbent/cloth contaminated with the product: EWC code: 15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

SECTION 14: Transport information

| | | | |
|--|-----------------|-------------------------------------|-----------------|
| 14.1. UN number or ID number: | Not applicable. | 14.4. Packing group: | Not applicable. |
| 14.2. UN proper shipping name: | Not applicable. | 14.5. Environmental hazards: | Not applicable. |
| 14.3. Transport hazard class(es): | Not applicable. | | |

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Special Provisions: None.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Abbreviations: PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Safety Data Sheet

Urea 40% Solution

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

SDS is prepared by

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