

Hydroxyurea

HDU0025-0250

SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Identification of the product : Raw Material
Product code : HDU0025-0250
Trade name : Hydroxyurea
CAS number : 127-07-1



Danger

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

Use : For research purposes only

1.3. Details of the supplier of the safety data sheet

Company identification : **Formedium Ltd.**
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.Formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency phone nr : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

SECTION 2 Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Germ cell mutagenicity (Category 1B), H340

Reproductive toxicity (Category 2), H361

For the full text of the H-Statements mentioned in this Section, see Section 16.



2.2. Label elements

Labelling according Regulation (EC) No 1272/2008

Hazard statement(s): H340 May cause genetic defects.
H361 Suspected of damaging fertility or the unborn child.

Signal word: Danger

Precautionary statement(s): P201 Obtain special instructions before use.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Supplemental Hazard Statement(s): None

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3 Composition/Information on Ingredients

This product is hazardous

Components

Substance name	contents	CAS No	EC No	Classification
Hydroxyurea	>100 %	127-07-1	204-821-7	Muta. 1B; Repr.2; H340, H361

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Hydroxyurea**HDU0025-0250****SECTION 4 First Aid Measures****4.1. Description of first aid measures**

- **General information** : Consult a physician. Show this safety data sheet to the doctor in attendance.

- **Inhalation** : Remove victim to fresh air. If not breathing give artificial respiration. Seek medical attention if ill effects develop.

- **Skin contact** : Wash off with soap and plenty of water. Consult a physician.

- **Eye contact** : Flush eyes with water as a precaution.

- **Ingestion** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms and effects, both acute and delayed :**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.4.

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

No data available.

SECTION 5 Fire-fighting Measures**5.1. Extinguishing media**

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information

No data available

SECTION 6 Accidental Release Measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7 Handling and Storage**7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, cool area. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 – 8 °C.

Moisture sensitive.

Hydroxurea**HDU0025-0250****SECTION 7 Handling and Storage (continued)**

Storage class (TRGS 510) Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects.

7.3. Specific end use(s)

For research purposes only.

SECTION 8 Exposure Controls/Personal Protection**8.1. Control parameters****Industrial Hygiene**

: Contains no substances with occupational exposure limit values

8.2. Exposure controls

- **Eye protection** : Safety glasses with side-shields conforming to EN166
- **Body protection** : impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- **Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- **Respiratory protection** : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- **Control of environmental exposure**
Prevent further leakage or spillage if safe to do so.
Do not let product enter drains.

Hydroxurea**HDU0025-0250****SECTION 9 Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

a) Appearance	: Form: powder
b) Odour	: No data available
c) Odour Threshold	: No data available
d) pH	: No data available
e) Melting point/freezing point	: 135 °C
f) Initial boiling point and boiling range	: No data available
g) Flash point	: No data available
h) Evaporation rate	: No data available
i) Flammability (solid, gas)	: No data available
j) Upper/lower flammability or explosive limits	: No data available
k) Vapour pressure	: No data available
l) Vapour density	: No data available
m) Relative density	: No data available
n) Water solubility	: No data available
o) Partition coefficient: noctanol/water	: No data available
p) Auto-ignition temperature	: No data available
q) Decomposition temperature	: No data available
r) Viscosity	: No data available
s) Explosive properties	: No data available
t) Oxidizing properties	: No data available

9.2. Other information

No data available.

SECTION 10 Stability and Reactivity**10.1. Reactivity**

Not established

10.2. Chemical stability**Stability** : Stable under normal conditions.**10.3. Possibility of hazardous reactions****Hazardous properties** : None.**10.4. Conditions to avoid**

Exposure to moisture

10.5. Incompatible materials**Materials to avoid** : Strong oxidizing agents.**10.6. Hazardous decomposition products****Hazardous decomposition products** : When heated to decomposition, emits dangerous fumes**SECTION 11 Toxicological Information****11.1. Information on toxicological effects****Acute toxicity** : LD50 Oral – Rat – 5,760 mg/kg**Skin corrosion/irritation**

No data available

Serious eye damage/eye irritation

No data available

Hydroxurea**HDU0025-0250****SECTION 11 Toxicological Information (continued)****Respiratory or skin sensitisation**

No data available

Germ cell mutagenicity

In vivo tests showed mutagenic effects

Hamster fibroblast Sister chromatid exchange

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydroxyurea)

Reproductive toxicity

Suspected human reproductive toxicant Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information RTECS: YT4900000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Liver - Irregularities - Based on Human Evidence

11.2. Additional Information**Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12 Ecological Information**12.1. Toxicity**

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

No data available

12.7. Endocrine disrupting properties

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Hydroxurea**HDU0025-0250****SECTION 13 Disposal Considerations****13.1. Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14 Transport Information

14.1. UN Number : Not applicable

General information : Not classified as dangerous in the meaning of transport regulations.

14.2. UN Proper shipping name : Not applicable

14.3. Transport hazard class(es) : Not applicable

14.4. Packing Group : Not applicable

14.5. Environmental hazards : Not applicable

14.6. Special precautions for user : Not applicable

14.7. Bulk Transport-Annex Marpol 73/78 – IBC : Not applicable

SECTION 15 Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national / local regulations are observed. See label for full details, information.

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

15.2. Chemical Safety Assessment

Not established.

SECTION 16 Other Information**Full text of H-Statements referred to under sections 2 and 3.**

H340 May cause genetic defects.

H361 Suspected of damaging fertility or the unborn child.

Muta. Germ cell mutagenicity

Repr. Reproductive toxicity

Further Information:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision: Complete SDS revision

End of document