# Safety Data Sheet



## 1: Identification of substance / mixture

### 1. Product Identifier

**Substance**

| | |
|---|---|
| Product Name | **Urea** |
| Product Code | U20200 |
| CAS Number | 57-13-6 |
| Other Names | U20200<br>Carbamide |
| IUPAC | |
| MFCD Number | |
| EC/EINECS | 200-315-5 |
| REACH Number | Index-No |

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

Laboratory Research and Development Use

### 3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road,Chelsworth
Ipswich
Suffolk
IP77LE
UK

Telephone: 01449 741178
Fax: 01449 741217
Email: support@melford.co.uk

### 4. Emergency telephone number

+44(0)1449 741178 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

Non Hazardous

### 2. Label elements

Non Hazardous

**Hazard Statements**

Non Hazardous

**Precautionary Phrases**

Non Hazardous

### 3. Other Hazards

Non Hazardous

## 3. Composition / Information on Ingredients

### 1. Substances

| Product Name | Hazards | Concentration |
|---|---|---|
| Urea | | |
| CAS Number: 57-13-6<br>EC/EINECS: 200-315-5 | | <=100% |

## 4. First Aid Measures

### 1. Description of first aid measures

*Skin Contact* Wash with plenty of soap and water.

*Eye Contact* Bathe the eye with running water for 15 minutes.

*Ingestion*

Wash out mouth with water.
Consult a doctor.

*Inhalation* Supply fresh air; consult a doctor in case of complaints.

### 2. Most important symptoms and effects

No data available

### 3. Indication of any immediate medical attention

No data available

## 5. Firefighting measures

### 1. Extinguishing Media

*Suitable* Water spray.
Carbon dioxide.
Alcohol or polymer foam.
Dry chemical powder.

*Unsuitable* None

### 2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
In combustion emits toxic fumes of nitrogen oxides.

### 3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

## 6. Accidental Release Measures

### 1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

### 2. Environmental Precautions

Do not discharge into drains or rivers.

### 3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

## 7.Handling and Storage

### 1. Personal Precautions

*Safe Handling* Provide appropriate exhaust ventilation at places where dust is formed.

*Protection against explosions and fires* Normal measures for preventive fire protection.

### 2. Conditions for safe storage, including any incompatibilities

*Managing Storage Risks* Store in cool, well ventilated area.

*Storage Controls* Keep container tightly closed.

*Maintaining Integrity* No special requirements

*Other advice* no further information available

### 3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

### 2. Exposure Controls

| | |
|---|---|
| *General protective and hygiene measures* | The standard precautionary measures should be adhered to when handling |
| *Engineering measures* | Provide appropriate exhaust ventilation at places where dust is formed. |
| *Eye / Face Protection* | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU) |
| *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.<br>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* | Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| *Skin protection* | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| *Other personal protection advice* | no data available |

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

| | |
|---|---|
| Appearance | White crystals |
| Odour | No Data Available |
| Odour threshold | No Data Available |
| PH | 7.5-9.5 |
| Melting point / Freezing point | 132-135°C |
| Initial boiling point and boiling range | No Data Available |
| Flash point | No Data Available |
| Evaporation rate | No Data Available |
| Flammability(solid,gas) | No Data Available |
| Upper/lower flammability or explosive limits | No Data Available |
| Vapour pressure | No Data Available |
| Vapour density | No Data Available |
| Relative density | No Data Available |
| Solubility(ies): | Soluble in water |
| Partition coefficient: n-octanol/water | No Data Available |
| Auto-ignition temperature | No Data Available |
| Decomposition temperature | No Data Available |
| Viscosity | No Data Available |
| Explosive properties | No Data Available |
| Oxidising properties | No Data Available |

### 2. Other Information

No additional information available

## 10. Stability and Reactivity

### 1. Reactivity

no unusual reactivity

### 2. Stability

Stable under recommended storage conditions.

### 3. Possibility of Hazardous Reactions

No data available

### 4.Conditions to Avoid

No data available

### 5. Incompatible Materials

Strong oxidizing agents.
Chlorine.
Sodium hypochlorite

### 6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide.
In combustion emits toxic fumes of carbon monoxide.
In combustion emits toxic fumes of nitrogen oxides.

## 11. Toxicology information

### 1. Information

| | |
|---|---|
| *Acute Toxicity* | Oral LD50 (rat) 8,471 mg/kg |
| *Skin corrosion/irritation* | no data |
| *Serious eye Damage/irritation* | no data |
| *Respiratory or skin sensitisation* | No sensitizing effect known |
| *Germ Cell mutagenicity* | no data |
| *Carcinogenicity* | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| *Reproductive toxicity* | not known |
| *STOT-single exposure* | not known |
| *STOT-repeated exposure* | not known |
| *Aspiration hazard* | not known |

### 2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12. Ecological Information

### 1. Toxicity

Toxicity to fish LC50
Poecilia reticulata (guppy) - 17,500 mg/l - 96 hr
Daphnia magna (water flea) - 3910 mg/l - 48 hr

### 2. Persistence and degradability

not known

### 3. Bio-Accumulative Potential

not known

### 4. Mobility and Soil

not known

### 5. Results of PBT & vPvB assessment

not known

### 6. Other adverse effects

not known

## 13. Disposal Considerations

### 1. Waste Treatment Methods

*Disposal Operations* Consult state, local or national regulations for proper disposal.

*Disposal of Packaging* Disposal must be made according to official regulations.

## 14. Transport Information

### Air (ICAO)

Not classified as hazardous for transport

### Road (ADR)

Not classified as hazardous for transport

### Sea (IMDG)

Not classified as hazardous for transport

## 15. Safety, health, environmental and national regulations

### 1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

### 2. Safety Assessment

No Chemical Safety Assessment

## 16. Other Information

### 1. Other Information:

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)
RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association
ICAO:International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS:Chemical Abstracts Service

## 3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.