

## Material Safety Data Sheet\_ UROCHEM – Urea Moulding compounds

**1. IDENTIFICATION****1.1 Substance/ Preparation identification**

**Product name:** UROCHEM - Urea Moulding compounds –  
Grades: 134\_136\_161\_162\_171\_371\_191

**Intended/recommended use:** Raw material for thermosetting plastics

**1.2 Company identification**

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**2. HAZARD IDENTIFICATION****2.1 Classification**

No hazardous product as specified in Directive 67/548/CE and 1999/45/CE and OSHA's Federal Hazard

**2.2 Potential health hazard**

Prolonged inhalation may cause irritation for mucous membranes and respiratory system.

Prolonged contact with the skin may cause localized irritation. The ingestion may cause gastrointestinal irritation.

Formaldehyde gases are released during the molding process, in an amount equal to mg/m<sup>3</sup>, may cause irritation to the eyes, mucous membranes of the nose and throat.

Hazardous substances contained in the product :

Formaldehyde : < 0,2 % (wt/wt) CAS: 50-00-0 EINECS: 200-001-8

**2.3 Potential physical hazard**

If mixed with air, may cause inflammable/explosive mixtures (see point 7).



**2.4 Hazards for environment**

No hazards known.

**2.5 Other information**

Product has no labelling requirement (see point 15).

**3. COMPOSITION/ INFORMATION ON INGREDIENTS****3.1 Chemical characterization**

**Composition :** Amino- Resin from methyloleureas, reinforced with cellulose

Chemical name	CAS_N°	EC_N°	Concentration (%)	Hazard code (1)	Risk phrases (2)
Formaldehyde-urea resin	9011-05-6	//	70	//	//
Cellulose	9004-34-6	232-674-9	30	//	//
Titanium Dioxide	13463-67-7	236-675-5	0 - 3,0	//	//
Zinc Stearate	557-05-1	209-151-9	max 0,5	//	//
Zinc Sulfate Hexahydrate	13986-24-8	231-793-3	0,05 - 0,24	N, Xn	R 22-41-50/53

<sup>1</sup>Hazard codes: Canc 3 = Cancer, Category 3; T+ = Very toxic; T = Toxic; C = Corrosive; Xn = Harmful; Xi = Irritating; E = Explosive; O = Oxidising; F+ = Extremely flammable; F = Very flammable; N = Dangerous for the environment.

<sup>2</sup>The full text of the phrase is listed under heading 16.

**4. FIRST AID MEASURES****4.1 General advice**

No special measure required.

In case of accident or if you feel unwell, seek medical advice and show this sheet where possible.

Never give any food or drink to an unconscious person.

**4.2 Inhalation**

In case of trouble, take the person in open air; If trouble persists, consult a medical.

**4.3 Skin contact**

Wash with soap and water. If irritation persists, consult a medical.

**4.4 Eye contact**

Wash with plenty of water. If irritation persists, consult a medical.

**4.5 Ingestion**

Wash out mouth thoroughly, drink a lot of water, consult a medical.

**5. FIRE FIGHTING MEASURES****5.1 Suitable extinguishing media**

The material is self-extinguishable.

In case of necessity may be used: water spray, foam, powder and CO<sub>2</sub>.

Extinguishing media which shall not be used: high volume water jet.

**5.2 Dangerous products of thermal decomposition**

The product does not burn easily, but for thermal decomposition, some toxic fumes composed of CO<sub>2</sub>, CO, NOX, CH<sub>2</sub>O, NH<sub>3</sub> will give off.

**5.3 Safety equipment**

Wear protective garments and breathing mask.



## ***6. ACCIDENTAL RELEASE MEASURES***

### **6.1 Personal precautions**

See recommendation point 8.

### **6.2 Environmental precautions**

Do not release in sewerage system or in any watercourse.

### **6.3 Methods for cleaning up**

Collect by mechanical means and dispose in according to local regulations and national legislation.

### **6.4 Other indications**

For information relating to the handling, see point 7.

For information on protective equipment, see point 8.

For information on disposal, see point 13.

## ***7. HANDLING AND STORAGE***

### **7.1 Handling**

Avoid to generate powder.

Urea moulding compounds, in the form of finely divided dust may pose a risk of explosion when mixed with air at concentrations of about 70 mg / l.

### **7.2 Storage**

Store in original packaging, in a cool and dry place (storage temperature: max 20 °C/ 68 °F;

Relative humidity: <50%).

Keep packaging closed, in well-ventilated area and away from sunlight and moisture.

### **7.3 Other data**

None.

## ***8. EXPOSURE CONTROL AND PERSONAL PROTECTION***

### **8.1 Precautionary measures to minimize worker exposure**

Assure adequate ventilation, in order to maintain the concentration of powders below the limits of exposure.

#### **Exposition limits for work place:**

ORGANIC DUST\_ TWA: 10 mg/m<sup>3</sup> (inhalable dust), 4 mg/m<sup>3</sup> (respirable dust).

TITANIUM DIOXIDE \_ CAS-n°: (13463-67-7)

ACIGH : TLV : 10 mg/m<sup>3</sup>, Short term exposure limit (STEL): 5 mg/m<sup>3</sup>

OSHA PEL: total dust 15 mg/m<sup>3</sup> – 5 mg/m<sup>3</sup>

FORMALDHEYDE \_ CAS-n°: (50-00-0)

OSHA PEL: TWA. 0,92 mg/m<sup>3</sup> – 0,75 ppm (8 Hr)

ACGIH: TLV\_ 0,37 mg/m<sup>3</sup> – 0,3 ppm \_ CAT. C3 (suspect cangerous for human).

### **8.2 Exposure controls**

All work should be carried out in accordance with strict hygiene practises. All work should take place in suitable premises, in accordance with the existing legislation and regulations. Avoid raising dust.

Review the OSHA Formaldehyde standard (29CFR 1910.1048) for worker training, work place monitoring, and medica surveliance requirements to ensure compliance



### 8.3 Personal protective equipment

- *respiratory protection:* Anti-powder mask.
- *hand protection:* Chemical-resistant gloves (e.g. Nitrile gloves), certified according to EN 374 or equivalent approved by ASTM F739, should be used to prevent skin contact.
- *eye protection:* Safety goggles, safety face shield.
- *skin protection:* Protective clothing should be used to prevent skin contact.
- *Environmental exposure controls:* Waste and spillage should be disposed off according to local regulations and national legislation. Avoid releasing to the environment. Prevent material to enter sewer system. The product has a low biodegradability. Prevent contamination of soil and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- *Appearance :* Granules and Powder
  - *Colour :* All colours
  - *Odour :* Odourless.
  - *pH (20°C):* 5.5/8.0 (10 % wt)
- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• <i>Boiling point :</i> Not applicable</li> <li>• <i>Melting point :</i> Not applicable</li> <li>• <i>Vapour pressure :</i> Not applicable.</li> <li>• <i>Vapour density :</i> Not applicable.</li> <li>• <i>Flammability :</i> 0 (HMIS and NFPA)</li> <li>• <i>Auto ignition temperature :</i> &gt; 600 ° C (self-extinguishable)</li> <li>• <i>Explosive properties :</i> Explosive mixtures of vapors, dust and air may be formed</li> <li>• <i>Density ([kg./m<sup>3</sup>) :</i> 600 – 800 for Urochem granular; 400 – 500 for Urochem powder</li> <li>• <i>Partition coefficient: n-octanol/water :</i> Not known</li> </ul> | <ul style="list-style-type: none"> <li>• <i>Viscosity:</i> Not applicable.</li> <li>• <i>Evaporation rate :</i> Not applicable.</li> <li>• <i>Solubility in water ( 20°C) :</i> Insoluble</li> <li>• <i>Solubility in alcohol (20°C) :</i> Insoluble</li> <li>• <i>Solubility in ketone (20°C) :</i> Insoluble</li> </ul> |
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## 10. STABILITY AND REACTIVITY

### 10.1 Condition to avoid

Do not store the material at temperature higher than 20 °C / 68 °F and with relative humidity higher than 50 %.

### 10.2 Substances to avoid / hazardous reactions

None.

### 10.3 Hazardous decomposition products

See point 5.



**11. TOXICOLOGICAL INFORMATION****11.1 Inhalation**

Can cause irritations to respiratory apparatus.

**11.2 Ingestion**

Can cause irritations to mouth, pharynx and gastrointestinal apparatus.

**11.3 Skin contact**

Powders can be irritant for particular sensitive subjects.

**11.4 Eye contact**

Powders can cause eyes irritations.

**11.5 Toxicity**

LD<sub>50</sub> oral rat > 2000 mg/kg. (No acute oral toxicity)

**11.6 Other data**

No hazardous product as specified in Directive 67/548/CE and OSHA (Federal hazard Communication Standard). According to our present knowledge, no adverse health effects are expected when the product is handled and used with due care and attention, in the intended field of application.

**12. ECOLOGICAL INFORMATION****12.1 Eco\_toxicity**

LC<sub>50</sub>, 96 h\_ fish: > 4500 mg./l . Low toxicity for marine organisms.

**12.2 Mobility and bioaccumulative potential**

No bioaccumulation is to be expected.

**12.3 Persistence and degradability**

The product has a low biodegradability

**12.4 Other information**

Water hazard class 1 (D) (*Self classification*): slightly dangerous for water. Do not allow undiluted or large amounts into the groundwater, surface water or drains.

**13. DISPOSAL CONSIDERATION****13.1 Advised disposal**

Dispose of as solid waste according to Federal, State and Local regulation. Observe all applicable Federal, State and Local environmental regulation.

**FOR EUROPE:**

Burn in incinerator or dispose in dumping, accordingly to local regulations.

12 00 00	Wastes from shaping and physical and mechanical surface treatment of metals and plastics.
12 01 00	
12 01 99	Wastes not otherwise specified

**14. TRASPORT INFORMATION****14.1 Land transport (ADR/RID)**

Product isn't classified, according to transport regulations for dangerous goods.

**14.2 Marine transport (IMO/IMDG)**

Product isn't classified, according to transport regulations for dangerous goods.

**14.3 Air transport (IATA)**

Product isn't classified, according to transport regulations for dangerous goods.



**15. REGULATORY INFORMATION****15.1 Classification**

Product isn't hazardous material according to Directives 67/548/CE and 199/45/CE. OSHA's Federal Hazard.

**15.2 Labeling requirement**

Not subject to labeling in accordance with current regulation in force.

**15.3 Hazard class for water**

Water hazard class WGK 1 (*Self classification*): slightly dangerous for water.

**16. OTHER INFORMATION**

International Agency for Research on Cancer (IARC) has classified formaldehyde in group 1, carcinogenic to humans (June 2004). The classification is based upon epidemiological studies indicating an increased risk of throat cancer. However, the cancer causing properties of formaldehyde rely on exposure to high concentrations of the substance over long periods of time.

The information in this safety data sheet is based upon our present knowledge. The information is presented with the intention of describing the safest way of handling the product. The safety data sheet is therefore not to be regarded as a complete chemical description of the product. Consequently, the user is responsible for making sure that the product is meant to be used in the actual field of application and that it serves the purpose intended.

***R-phrase referred to under heading 3:*****Zinc Sulfate Hexahydrate**

*R 22 : Harmful if swallowed.*

*R 41 : Risk of serious damage to eyes*

*R 50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment*

**The safety data sheet has been revised according to:**

*European Regulation 1907/2006, Reach and OSHA's Federal Hazard (29CFR 1910.1048)*

