

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



**64120 Urea**

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Revised edition: 17.04.2020

Version: 4

Printed: 04.01.2022

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## 1. Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1. Product Identifier

*Product Name:* Urea

*Article No.:* 64120

*UFI:* --

### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Basic chemical without special defined application.  
Chemical intermediate product*

*Uses advised against:*

### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* [www.kremer-pigmente.com](http://www.kremer-pigmente.com)

*EMail:* [info@kremer-pigmente.com](mailto:info@kremer-pigmente.com)

*Importer:* --

### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

### 1.4.2 Poison Center:

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## 2. Hazards Identification

### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as  
hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

### 2.2. Label Elements

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as  
hazardous according to CLP/GHS.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

### 2.3. Other Hazards

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## Composition/Information on Ingredients

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## 3.

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:*

*Information on Components / Hazardous Ingredients:*

Urea; REACH Reg. No. 01-2119463277-33	100 %	CAS-Nr: 57-13-6
		EINECS-Nr: 200-315-5
		EC-Nr:

*Additional information:*

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes.*

*After inhalation:*

*Supply fresh air.*

*In case of complaints consult a physician.*

*After skin contact:*

*Wash off with plenty of water and soap.*

*If symptoms persist, consult a physician.*

*After eye contact:*

*Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.*

*If symptoms persist consult physician.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.*

*Effects:*

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*No further information available.*

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

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*When heated or in case of fire: formation of hazard fumes possible.*

*In case of fire: formation of carbon monoxide.*

## 5. 3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and full protective gear.*

*Further information:*

*Cool exposed containers with water spray.*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

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## 6. Accidental Release Measures

### 6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Ensure adequate ventilation.*

*Avoid formation of dust.*

### 6. 2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

### 6. 3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Clean up mechanically. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.*

### 6. 4. Reference to other Sections

*For information for safe handling see Section 7.*

*Protective clothing, see Section 8.*

*Dispose of contaminated material according to Section 13.*

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## 7. Handling and Storage

### 7. 1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide adequate ventilation.*

*Avoid formation and deposition of dust. Provide adequate ventilation.*

*Avoid contact with eyes and skin.*

*Hygienic measures:*

*Keep away from foodstuffs and drinks.*

### 7. 2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Requirements for storage areas and containers:*

*Observe official regulations on storage and handling of water hazardous substances.*

*Information on fire and explosion*

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*protection:*

*Product is not combustible.*

*Do not store together with: nitrites, nitrates.*

*Storage class:*

*11 resp. 13 (TRGS 510, Storage of hazardous materials in transportable containers)*

*Further Information:*

## 7.3. Specific End Use(s)

*Further information:*

*No further information available.*

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*No occupational exposure limits known.*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*42 mg/kg bw/d (worker, swallowing, long-term exposure - systemic effects)*

*580 mg/kg bw/d (worker/consumer, skin contact, long-term exposure- systemic)*

*292 mg/m3 (worker, inhalation, long-term exposure - systemic)*

*125 mg/m3 (consumer, inhalation, long-term exposure - systemic)*

*Predicted No-Effect Concentration (PNEC):*

*Fresh water: 0.047 mg/l*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation/exhaust system.*

*Personal Protection*

*General protective measures:*

*Do not inhale dust. Do not eat, drink or smoke while working.  
Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Dust mask recommended when very dusty: with particle filter P2.*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Protective gloves made of butyl rubber.*

*Nitrile rubber (NBR)*

*Natural latex.*

*Please note the manufacturers' detailed statements, especially*

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*about the minimum thickness and the minimum breakthrough time.*

*Eye protection:*

*Recommended (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

*Prevent from getting into the soil, surface water and sewage system.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

*Form:* *solid*

*Color:* *white*

*Odor:* *ammoniacal*

*Odor threshold:*  
*not determined*

*pH-Value:* *7 - 10 (100 g/l; 20°C)*

*Melting temperature:* *133°C*

*Boiling temperature:*  
*not determined*

*Flash point:*  
*not combustible*

*Evaporation rate:*  
*No information available.*

*Flammability (solid, gas):*  
*not flammable*

*Upper explosion limit:*  
*no information available*

*Lower explosion limit:*  
*no information available*

*Vapor pressure:*  
*not determined*

*Vapor density:*  
*No information available.*

*Density:* *1.323 g/cm<sup>3</sup> (20°C)*

*Solubility in water:* *1080 g/l (20°C)*

*Coefficient of variation (n-Octanol/Water):*  
*-1.59 logPOW*

*Auto-ignition temperature:*  
*not applicable*

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*Decomposition temperature:* > 133°C

*Viscosity, dynamic:*  
*not applicable*

*Explosive properties:*  
*Product does not present an explosion hazard.*  
*The risk of dust explosion is generally possible with organic solids.*

*Oxidizing properties:*

*Bulk density:* 600 - 850 kg/m<sup>3</sup>

## 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*No further information.*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Reacts with nitrates and nitrites.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Strong heating.*

*Thermal decomposition:*

*Do not overheat product: can cause gaseous decomposition products.*

### 10.5. Incompatible Materials

*Strong oxidizing agents.*

*Nitrates, nitrites.*

### 10.6. Hazardous Decomposition Products

*Thermal decomposition may yield ammonia gas.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral:* 8471 mg/kg (rat)

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*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*No information available.*

*Primary effects*

*Irritant effect on skin:*

*Non irritating*

*Irritant effect on eyes:*

*Non-irritating to eyes*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*No relevant data found.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No relevant data found.*

*Additional toxicological information:*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Fish toxicity:*

*LC50: > 6810 mg/l (96h, Leuciscus idus)*

*Daphnia toxicity:*

*EC50: > 10000 mg/l (24h, Daphnia magna)*

*Bacteria toxicity:*

*EC0: > 10000 mg/l (16h, Pseudomonas putida)*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*> 96 % (16d); readily biodegradable (OECD 302B)*

### 12.3. Bioaccumulation

*No bioaccumulation expected due to the distribution coefficient n-Octanol/water (logPOW).*

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## 12. 4. Mobility

*No information available.*

## 12. 5. Results of PBT- und vPvP Assessment

*Not applicable.*

## 12. 6. Other Adverse Effects

*Water hazard class:*

*1, slightly hazardous*

*Do not let run into surface waters, waste water or soil.*

*Behaviour in sewage systems:*

*No impairment of the biodegradability of active sludge expected when small amounts are discharged in biological sewage plants.*

*Further ecological effects:*

*AOX Value:*

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## 13. Disposal Considerations

### 13. 1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

*The waste code is determined according to the kind of waste and industry stated in the European Waste Catalogue.*

*Uncleaned packaging:*

*Non contaminated packaging can either be recycled or utilized for energy (incineration).*

*Suggested cleaning agent: water.*

*Waste Code No.:*

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## 14. Transport Information

### 14. 1. UN Number

*ADR, IMDG, IATA*

### 14. 2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

*IMDG/IATA:*

*Not hazardous goods*

### 14. 3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

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*not applicable*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

## 14. 4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

## 14. 5. Environmental Hazards

*None*

## 14. 6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

## 14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

## 14. 8. Further Information

*Do not transport together with nitrites and nitrates.*

# 15. Regulatory Information

## 15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*1, slightly hazardous for water (German Regulation)*

*Local regulations on chemical accidents:*

*Not listed.*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

## 15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

*EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern (REACH Regulation (EC) 1907/2006, Article 57)*

## 15. 3. Further Information

*RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS): not listed.*

# 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product*

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*from the point of view of safety requirements. It should be  
therefore not be construed as guaranteeing specific properties.*