

# Safety Data Sheet

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



## 63711 Klucel™ MF Pharm

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Revised edition: 27.06.2023

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

#### 1.1. Product Identifier

*Product Name:* Klucel™ MF Pharm

*Article No.:* 63711

*UFI:* --

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

*Identified uses:*  
Rheological modifier

*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

*E-Mail:* 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)*

*No classification required according to the CLP/GHS guidelines.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

#### 2.3. Other Hazards

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### 3. Composition/Information on Ingredients

Substance

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3. 1.
3. 2. **Mixture**
- Chemical Characterization:* Hydroxypropyl cellulose, CAS No. 9004-64-2, EINECS 618-388-0
- Information on Components / Hazardous Ingredients:*
- Additional information:*
- 

### 4. First Aid Measures

#### 4. 1. Description of the First Aid Measures

*General information:*

*No special measures required.*

*After inhalation:*

*Supply fresh air. Consult physician if symptoms persist.*

*After skin contact:*

*Wash off immediately with soap and plenty of water and rinse thoroughly.*

*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:*

*Effects:*

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

*Treatment:*

*No special first-aid measures necessary.*

*Treat symptomatically.*

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### 5. Fire-Fighting Measures

#### 5. 1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Foam, water jet.*

*Unsuitable extinguishing media:*

#### 5. 2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Dust can form explosive mixtures with air.*

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

#### 5. 3. Advice for Firefighters

*Protective equipment:*

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*Wear self-contained respiratory protective device.*

*Further information:*

*Avoid contamination of sewage system, open water ways and ground water.*

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### 6. Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear protective clothing.*

*Together with water product causes slippery surfaces.*

*Avoid inhalation of dust.*

*Keep unprotected persons out of danger zone.*

#### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soil, drains and surface waters.*

#### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Take up mechanically and collect in suitable containers for disposal.*

*Avoid dust formation.*

#### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*See Section 13 for information on disposal.*

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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.*

*Hygienic measures:*

*Do not eat or drink during work. Do not smoke.*

*Do not inhale dust. Wash hands before breaks and at the end of work.*

#### 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:*

*Information on fire and explosion protection:*

*Dust may form an explosive mixture with air.*

*Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.*

*Take measures to prevent static electricity discharge, earth/ground all equipment.*

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*Ground and bond containers when transferring material.  
Dust explosion class 1 (Kst-value > 0 - 200 bar m/s).*

*Storage class:*

*11; Combustible solids (TRGS 510)*

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*Does not contain any components with workplace limit values.*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation in case of dust formation.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*None required under normal operating conditions.*

*Hand protection:*

*Protective gloves*

*Protective glove material:*

*Protective gloves made of butyl rubber.*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

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## 9. Physical and Chemical Properties

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

*Form:* granules

*Color:* whitish

*Odor:* odorless

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<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>5 - 8 (2 %)</i>
<i>Melting temperature:</i>	<i>100 - 150°C</i>
<i>Boiling temperature:</i>	<i>not determined</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not flammable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>30 g/m<sup>3</sup></i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	
<i>Density:</i>	<i>&gt; 1 g/cm<sup>3</sup></i>
<i>Solubility in water:</i>	<i>&gt; 2 g/l (OECD 105); soluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>230°C</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	<i>not available</i>
<i>Explosive properties:</i>	<i>Dust can form explosive mixtures with air.</i>
<i>Oxidizing properties:</i>	<i>no information available</i>
<i>Bulk density:</i>	<i>360 - 550 kg/m<sup>3</sup></i>
<b>9.2. Further Information</b>	
<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic:</i>	
<i>Burning class:</i>	<i>5 (26°C)</i>
<i>Solvent content:</i>	
<i>Solid content:</i>	

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*Particle size:*

*Other information:*

*Dust deflagration index (Kst): < 200 m.b\_/s*

*Dust explosion class: ST1*

*Minimal ignition energy: > 3 mJ*

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### 10. Stability and Reactivity

#### 10.1. Reactivity

*No decomposition if used according to specifications.*

#### 10.2. Chemical Stability

*Stable if used according to specifications.*

#### 10.3. Possibility of Hazardous Reactions

*Dust can form explosive mixtures with air.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Protect from frost, heat and direct sunlight.*

*Thermal decomposition:*

#### 10.5. Incompatible Materials

*None known.*

#### 10.6. Hazardous Decomposition Products

*None known.*

#### 10.7. Further Information

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### 11. Toxicological Information

#### 11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

*Acute Toxicity*

*LD50, oral:*

*No information available*

*LD50, dermal:*

*LC50, inhalation:*

*Primary effects*

*Irritant effect on skin:*

*Dust may cause irritation.*

*Irritant effect on eyes:*

*Product dust may cause irritation.*

*Inhalation:*

*Dust can cause irritation of the respiratory system.*

*Ingestion:*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*No mutagenic effects known.*

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*Reproductive toxicity:*

*No negative effects known.*

*Carcinogenicity:*

*No negative effects.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No negative effects.*

*Aspiration hazard:*

*Not applicable*

### 11.2. Information on other Hazards

*Endocrine Disrupting Properties:*

*This substance/mixture does not contain any components with endocrine disrupting properties in a percentage of 0.1 or greater, according to Article 57(f) of the REACH Regulation (EC) No. 1907/2006 or the Delegated Regulation (EC) 2017/2100 or the Delegated Regulation (EC) 2018/605.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*No information available.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*Not readily biodegradable.*

*Biodegradation: 4 % (28d; OECD 301D)*

### 12.3. Bioaccumulation

*No information available.*

### 12.4. Mobility

*No information available.*

### 12.5. Results of PBT- und vPvP Assessment

*On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %.*

### 12.6. Endocrine Disrupting Properties

*This substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.*

### 12.7. Other Adverse Effects

*Water hazard class:*

*1, slightly hazardous*

*Behaviour in sewage systems:*

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*Further ecological effects:*

*AOX Value:*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Reuse, when possible.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Empty container completely.*

*Non-contaminated packaging may be recycled.*

*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):*

*not applicable*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

#### 14.4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

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### 14.5. Environmental Hazards

*None*

### 14.6. Special Precautions for User

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

### 14.7. Maritime Transport in Bulk according to IMO Instruments

*not applicable*

### 14.8. Further Information

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## 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:*

*Seveso III Directive: not applicable under Directive 2012/18/EC.*

*Employment restrictions:*

*Restriction and prohibition of application:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable*

*Technical instructions on air quality:*

*Not applicable.*

### 15.2. Chemical Safety Assessment

*Exempted from the mandatory REACH Registration since this product is a polymer.*

### 15.3. Further Information

*Listed in the following inventories:*

*EINECS (618-388-0), TSCA (US), AIC (AUS), DSL (CA), ENCS/ISHL (JP), KECI (KR), PICCS (PH), IECSC (CN), TCSI (TW)*

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable*

*Regulation (EU) 2019/1021 - Persistent organic pollutants: not regulated / not applicable*

*Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable*

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