

# Safety Data Sheet

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



## 48220 Caput Mortuum Synthetic 180 M

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Revised edition: 08.06.2021

Version: 3

Printed: 20.04.2023

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

#### 1.1. Product Identifier

*Product Name:* Caput Mortuum Synthetic 180 M

*Article No.:* 48220

*UFI:* --

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

*Identified uses:*  
Coloring agent (pigment and dyes), inorganic.

*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:

### 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

*Dust may be produced when working with this material, which can cause a mechanical irritation of eyes, nose and respiratory tract.*

### Composition/Information on Ingredients

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### 3.

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization:* Fe<sub>2</sub>O<sub>3</sub>. Pigment Red 101, C.I. 77491

*Information on Components / Hazardous Ingredients:*

Diiron trioxide (Fe <sub>2</sub> O <sub>3</sub> ); REACH Reg. No. 01-2119457614-35-0000	> 90 %	CAS-Nr: 1309-37-1 EINECS-Nr: 215-168-1 EC-Nr:
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*Additional information:*

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

*General information:*

*Take affected persons out into the fresh air.*

*After inhalation:*

*Supply fresh air and keep patient calm.*

*If breathing is difficult call a physician.*

*Keep respiratory tract clear.*

*In case of unconsciousness place patient stable in side position for transportation.*

*After skin contact:*

*No special measures required.*

*After eye contact:*

*Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.*

*After ingestion:*

*No special measures required.*

#### 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:*

*Treat symptomatically.*

### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray.  
Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

*None known.*

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

*Special hazards:*

*Product is not flammable.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Usual measures for chemical fires.*

*Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.*

*Further information:*

*Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.*

*Contaminated extinguishing water and debris should be disposed of according to local regulations.*

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## 6. Accidental Release Measures

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

*Personal precautions:*

*No action shall be taken involving any personal risk or without suitable training.*

*Avoid formation of dust, wear protective clothing. Keep spectators away.*

*Ensure adequate ventilation.*

### 6.2. Environmental Precautions

*Environmental precautions:*

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

*Contact local authorities if product pollutes waterways or the sewage system.*

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

*Methods and material:*

*Pick up and arrange disposal without creating dust.*

*Sweep up and shovel.*

*Collect in suitable containers for disposal.*

### 6.4. Reference to other Sections

*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:*

*Wear adequate protective clothing (see para. 8).*

*Hygienic measures:*

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

*Wash thoroughly after handling.*

*Wash contaminated clothing before reusing.*

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### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store dry and in the original tightly sealed containers.  
Store in tightly sealed containers in a cool and well ventilated location.  
Do not store with food and drink.*

*Requirements for storage areas and containers:*

*Keep container tightly closed.*

*Information on fire and explosion protection:*

*Electrical installations / working materials must comply with the technological safety standards.*

*Storage class:*

*13; Non combustible solids (TRGS 510)*

*Further Information:*

*Do not store together with incompatible materials (see Section 10)*

### 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:*

*Good general ventilation should be sufficient to control worker exposure to airborne contaminants.*

*Personal Protection*

*General protective measures:*

*Remove contaminated clothing. Wash hands after work.  
Keep away from foodstuffs, beverages and feed.*

*Respiratory protection:*

*Dust mask recommended when very dusty (with particle filter P1).*

*Hand protection:*

*Protective gloves*

*Protective glove material:*

*Leather gloves(< 60 min)*

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*Eye protection:*

*Safety glasses with protective shields (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

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>red</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>5 - 8 (5 % w/w)</i>
<i>Melting temperature:</i>	<i>&gt; 1000°C (&gt; 1832°F)</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>This product is a non-volatile solid.</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>This product is a non-volatile solid.</i>
<i>Density:</i>	<i>5 kg/l (20°C)</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>not determined</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>

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*Explosive properties:*

*not available*

*Oxidizing properties:*

*no information available*

*Bulk density:*

### 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

*No information available.*

### 10.2. Chemical Stability

*The product is stable.*

### 10.3. Possibility of Hazardous Reactions

*None if handled and stored according to specifications.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No information available.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*No information available.*

### 10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

### 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: > 5000 mg/kg (rat)*

*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*No information available.*

*Primary effects*

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*Irritant effect on skin:*

*Non irritating*

*Irritant effect on eyes:*

*Non-irritating to eyes*

*Inhalation:*

*Chronic effects : Repeated or prolonged inhalation of dust can cause a chronic irritation of the respiratory tract.*

*Ingestion:*

*No information available*

*Sensitization:*

*No relevant data found.*

*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.*

*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.*

## 12. Ecological Information

### 12. 1. Aquatic Toxicity

*Fish toxicity:*

*LC50: > 1000 mg/l (96h; Leuciscus idus)*

*Daphnia toxicity:*

*No information available.*

*Bacteria toxicity:*

*No data available.*

*Algae toxicity:*

*No information available.*

### 12. 2. Persistency and Degradability

*No information available.*

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12. 3.	<b>Bioaccumulation</b>	<i>No information available.</i>
12. 4.	<b>Mobility</b>	<i>No information available.</i>
12. 5.	<b>Results of PBT- und vPvP Assessment</b>	<i>On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %.</i>
12. 6.	<b>Endocrine Disrupting Properties</b>	<i>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.</i>
12. 7.	<b>Other Adverse Effects</b>	
	<i>Water hazard class:</i>	<i>Not hazardous.</i>
	<i>Behaviour in sewage systems:</i>	
	<i>Further ecological effects:</i>	<i>No special effects or hazards known.</i>
	<i>AOX Value:</i>	<i>No data available.</i>

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13.	<b>Disposal Considerations</b>	
13. 1.	<b>Waste Treatment Methods</b>	
	<i>Product:</i>	<i>If product cannot be reused or recycled, it has to be disposed of according to current local regulations.</i>
	<i>European Waste Code (EWC):</i>	
	<i>Uncleaned packaging:</i>	<i>Non contaminated packaging can either be recycled or utilized for energy (incineration).</i>
	<i>Waste Code No.:</i>	

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14.	<b>Transport Information</b>	
14. 1.	<b>UN Number</b>	
	<i>ADR, IMDG, IATA</i>	
14. 2.	<b>UN Proper Shipping Name</b>	
	<i>ADR/RID:</i>	<i>No hazardous goods according to ADR / DOT (US) (land transportation).</i>
	<i>IMDG/IATA:</i>	<i>Not hazardous goods</i>
14. 3.	<b>Transport Hazard Classes</b>	
	<i>ADR Class:</i>	<i>not applicable</i>

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*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:*

### 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

*Do not store together with foodstuffs.*

*Protect against moisture.*

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## 15. Regulatory Information

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

*Water hazard class:*

*0, not hazardous (according to the German Regulation AwSV)*

*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:*

### 15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment is not necessary 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)*

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### 15.3. Further Information

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

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

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

*Regulation (EC) 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: not forbidden and/or not restricted*

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

*International Chemical Weapons Convention (CWC), list of the toxic chemicals and toxic chemical precursors: not forbidden and/or restricted*

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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.*