

# Material Safety Data Sheet

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



## 460007 Flake White in Linseed Oil

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Revised edition: 25.11.2010

Version: 1

Printed: 07.07.2014

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

#### 1.1. Product Identifier

Product Name: Flake White in Linseed Oil

Article No.: 460007

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

Identified uses: Coloring agent

Uses advised against:

#### 1.3. Details of the Supplier of the Safety Data Sheet

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.de

EMail: info@kremer-pigmente.de

#### 1.4. Emergency No.

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

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

Classification according to EC Regulation 1272/2008

Acute toxicity (oral), hazard category 4  
Acute toxicity (inhalation), hazard category 4  
Reproductive toxicity, category 1A  
Specific target organ toxicity (repeated exposure), category 2  
Hazardous to the aquatic environment, acute category 1  
Hazardous to the aquatic environment, chronic category 1

H302 Harmful if swallowed.

Cat.: 4

H332 Harmful if inhaled.

Cat.: 4

H360 May damage fertility or the unborn child.

Cat.:

H373 May cause damage to organs through prolonged or repeated exposure.

Cat.: 2

H400 Very toxic to aquatic life.

Cat.: 1

H410 Very toxic to aquatic life with long lasting effects.

Cat.: 1

Classification according to EC Regulation No. 67/548 or No. 1999/45

Harmful (Xn) R20 Harmful by inhalation.

Harmful (Xn) R22 Harmful if swallowed.

R33 Danger of cumulative effects.

Hazardous to the Very toxic to aquatic organisms.

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environment (N)	R50	
	R53	May cause long-term adverse effects in the aquatic environment.
	R61	May cause harm to the unborn child.
T, Repr. Cat. 1, 3	R62	Possible risk of impaired fertility.

*Safety Phrases:*

*Possible Environmental Effects:*

See Section 12.

### 2.2. Label Elements

*Classification according to EC Regulation 1272/2008*

*Hazard designation:*



GHS07



GHS08-2



GHS09

*Signal word:*

Danger

*Hazard designation:*

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

*Safety designation:*

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P281	Use personal protective equipment as required.
P405	Store locked up.
P501	Dispose of contents/ container according to regional, national and international regulations.

*Hazardous components for labelling:*

### 2.3. Other Hazards

## 3. Composition/Information on Ingredients

### 3.1. Substance

Mixture

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### 3.2.

*Chemical Characterization:*

*Basic lead carbonate in linseed oil.*

*Hazardous Ingredients:*

Trilead bis(carbonate) dihydroxide

< 80 %

CAS-Nr: 1319-46-6

EINECS-Nr: 215-290-6

EC-Nr: 082-001-00-6

*Additional information:*

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.*

*After inhalation:*

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

*After skin contact:*

*Wash with soap and rinse with plenty of water.  
If irritation continues consult a physician.  
Remove contaminated clothing.*

*After eye contact:*

*Rinse open eye for several minutes under running water.  
Consult a physician.*

*After ingestion:*

*Immediately get medical help.  
Rinse mouth thoroughly with plenty of water and drink plenty of water. Consult a physician.*

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

*Symptoms:*

*No further information available.*

*Effects:*

*No further information available.*

### 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:*

*Product itself does not burn.  
Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

*Water with full jet.*

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

*Special hazards:*

*In case of fire: formation of carbon oxides and smoke.  
When heated or in case of fire: formation of hazard fumes possible.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

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

*Ensure adequate ventilation.  
Avoid formation of dust.  
Respiratory protection in case of formation of vapors/dust/aerosol.*

### 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:*

*Take up mechanically and collect in suitable containers for disposal.  
Label as lead compound.*

### 6.4. Reference to other Sections

*Dispose of contaminated material according to Section 13.  
For information for safe handling see Section 7.  
Protective clothing, see Section 8.*

---

## 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:*

*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 room.*

*Requirements for storage areas and*

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*containers:*

*Open and handle container with care.*

*Information on fire and explosion protection:*

*Do not store together with: foodstuffs and animal feed.  
Do not store together with: oxidants and acidic products.*

*Storage class (VCI):*

*6.1 B; Non combustible toxic products.*

*Further Information:*

*Store in a dry place.*

### 7.3. Specific End Use(s)

*Further information:*

---

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*Lead and its compounds (calc. as Pb) except lead arsenate, lead chromate and alkyl lead compounds.  
Lead and its compounds: 0.15 mg/m<sup>3</sup>*

*Parameters to be controlled (EC):*

*Lead and its compounds: 0.15 mg/m<sup>3</sup> (UK; Control of Lead at Work Regulations, CLAW, 2002)*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*No further measures, see Section 7.*

*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.  
Store protective clothing separately.  
Vacuum overalls clean, do not blow off dust with compressed air.*

*Respiratory protection:*

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

*Hand protection:*

*Protective gloves*

*Protective glove material:*

*PVC, rubber.  
Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove*

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*material and dexterity. Always seek advice from glove suppliers.*

*Eye protection:*

*Safety glasses (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

<i>Form:</i>	<i>paste</i>
<i>Color:</i>	<i>white</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>9.26 (20°C)</i>
<i>Melting temperature:</i>	<i>220°C</i>
<i>Boiling temperature:</i>	<i>220°C</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 available</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>No information available.</i>
<i>Density:</i>	<i>6.4 g/cm<sup>3</sup> (20°C)</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>

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*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*Product does not present an explosion hazard.*

*Oxidizing properties:*

*no information available*

*Bulk density:*

*> 2.0 kg/m<sup>3</sup>*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*The data is based on the containing pigment.*

## 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 acids, bases and organic substances.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No further information available.*

*Thermal decomposition:*

*Avoid heat.*

### 10.5. Incompatible Materials

*Strong oxidizing agents (e.g. hydrogen peroxide, chromic acid)  
Strong acids and bases: release of lead(II) ions.*

### 10.6. Hazardous Decomposition Products

*Lead oxide.*

### 10.7. Further Information

*The data is based on the containing pigment.*

## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Basic lead carbonate (CAS 1319-46-6)*

*Acute Toxicity*

*LD50, oral:*

*> 2000 mg/kg (rat)*

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*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*No information available.*

*Primary effects*

*Irritant effect on skin:*

*No information available*

*Irritant effect on eyes:*

*No information available.*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*No information available.*

*Mutagenicity:*

*No data available.*

*Reproductive toxicity:*

*Toxic for reproduction. May impair fertility. May cause harm to the unborn child.*

*Cancerogenity:*

*No data available.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No data available.*

*Additional toxicological information:*

*Lead compounds are heavy soluble compounds, however, lead particles dissolve in hydrochloric acid in gastric fluids concentration and may accumulate in the body.*

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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

*No information available.*

### 12.3. Bioaccumulation

*No information available.*



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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:*

*2 (German Regulation) (Assessment by list): hazardous.*

*Do not let product contaminate ground water, waterways or sewage system.*

*Danger to drinking water even if small quantities leak into the ground.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*AOX Value:*

---

## 13. Disposal Considerations

### 13. 1. Waste Treatment Methods

*Product:*

*Must be treated as toxic waste according to local laws and regulations.*

*European Waste Code (EWC):*

*060405 - Wastes containing other heavy metals.*

*Uncleaned packaging:*

*Uncontaminated packaging may be recycled. Completely empty packaging can be disposed of with the regular waste.*

*Packaging may be disposed of in the same manner as the product.*

*Waste Code No.:*

---

## 14. Transport Information

### 14. 1. UN Number

*ADR, IMDG, IATA*

*2291*

### 14. 2. UN Proper Shipping Name

*ADR/RID:*

*BLEIVERBINDUNG, LÖSLICH, N.A.G. (Tribleibis(carbonat) Dihydroxid)*

*IMDG/IATA:*

*LEAD COMPOUND, SOLUBLE, N.O.S. (trilead bis(carbonate))*

### 14. 3. Transport Hazard Classes

*ADR Class:*

*6.1*

*Hazard no.:*

*6.1*

*Classification code:*

*T5*

*Tunnel no.:*

*E*

*IMDG Class (sea):*

*6.1*

*Hazard no.:*

*6.1*

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	<i>EmS No.:</i>	F-A, S-A
	<i>IATA Class:</i>	6.1
	<i>Hazard no.:</i>	6.1
14. 4.	<b>Packaging Group</b>	
	<i>ADR/RID:</i>	III
	<i>IMDG:</i>	III
	<i>IATA:</i>	III
14. 5.	<b>Environmental Hazards</b>	
		<i>Labelling according 5.2.1.8 ADR/RID: fish and tree</i> <i>Labelling according 5.2.1.6.3 IMDG: fish and tree</i> <i>Labelled with "P" according 2.10 IMDG: yes</i>
14. 6.	<b>Special Precautions for User</b>	
		<i>Warning: toxic substances</i>
14. 7.	<b>Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code</b>	
		<i>IMDG: not applicable</i>
14. 8.	<b>Further Information</b>	
15.	<b>Regulatory Information</b>	
15. 1.	<b>Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture</b>	
	<i>Water hazard class:</i>	2, hazardous for water
	<i>Local regulations on chemical accidents:</i>	
	<i>Employment restrictions:</i>	<i>The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.</i> <i>The employment restrictions for women in child-bearing age are to be observed (§§4 und 5 MuSchRiV).</i>
	<i>Restriction and prohibition of application:</i>	<i>Not permitted for privat consumers (ChemVerbV § and GL 76/796/EEC).</i> <i>Restricted to professional users (TRSG 200, No. 6.9).</i> <i>Use in paints restricted to artists colors and specific restoration work on historic buildings.</i>
	<i>Technical instructions on air quality:</i>	
15. 2.	<b>Chemical Safety Assessment</b>	
		<i>A Chemical Safety Assessment has not yet been carried out for this product.</i>
15. 3.	<b>Further Information</b>	
16.	<b>Other Information</b>	
		<i>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</i>

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