

# Safety Data Sheet

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



## 391022 Colored glass, Opal Light-Green, opaque

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Revised edition: 27.12.2017

Version: 2

Printed: 24.11.2020

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

#### 1.1. Product Identifier

*Product Name:* Colored glass, Opal Light-Green, opaque

*Article No.:* 391022

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

*Identified uses:*

*Colorless and colored glass as an intermediate for further processing*

*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)*

*Acute toxicity (oral), hazard category 4*  
*Skin sensitization, hazard category 1*  
*Acute toxicity (inhalation), hazard category 4*  
*Carcinogenicity, hazard category 2*  
*Specific target organ toxicity (repeated exposure), hazard category 2*  
*Chronic aquatic toxicity, hazard category 3*

H302 Harmful if swallowed.

Cat.: 4

H317 May cause an allergic skin reaction.

Cat.: 1

H332 Harmful if inhaled.

Cat.: 4

H351 Suspected of causing cancer.

Cat.: 2

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

Cat.: 2

H412 Harmful to aquatic life with long lasting effects.

Cat.: 3

*Possible Environmental Effects:*

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### 2.2. Label Elements

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

*This product is classified and labelled according to CLP/GHS regulations.*

*Hazard designation:*



GHS07



GHS08-2

*Signal word:*

Danger

*Hazard designation:*

|      |  |
|------|--|
| H302 | Harmful if swallowed.  |
| H317 | May cause an allergic skin reaction.                               |
| H332 | Harmful if inhaled.  |
| H351 | Suspected of causing cancer.                                       |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects.                 |

*Safety designation:*

|                |  |
|----------------|--|
| P260a          | Do not breathe dust.   |
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves/ clothing/ eye/ face protection.  |
| P284           | Wear respiratory protection.   |
| P301+P310      | If swallowed: Immediately call a poison center or physician.   |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.      |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. |
| P314           | Get medical advice/attention if you feel unwell.   |
| P405           | Store locked up.   |

*Hazardous components for labelling:*

### 2.3. Other Hazards

*Restricted to professional users.*

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:*

*Glass, oxide (colored glass): CAS No. 65997-17-3, EINECS 266-046-0  
Inorganic product of fusion.  
All components are bound by vitrification.*

*Information on Components / Hazardous*

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### Ingredients:

|   |          |  |
|---|----------|--|
| Lead monoxide (Repr. 1A, H302-332-351-360-362-372-410); REACH Reg.No. 01-2119531110-62-0014 | 1 - 40 % | CAS-Nr: 1317-36-8<br>EINECS-Nr: 215-267-0<br>EC-Nr: 082-001-00-6 |
| Cobalt oxide (H302-332-400); REACH Reg. No. 01-2119513794-36-xxxx                           | 0 - 9 %  | CAS-Nr: 1307-96-6<br>EINECS-Nr: 215-154-6<br>EC-Nr:              |
| Diarsenic trioxide (H300-314-350-410)   | 0 - 5 %  | CAS-Nr: 1327-53-3<br>EINECS-Nr: 215-481-4<br>EC-Nr:              |
| Cadmium oxide (H301-302-331-372-350i)   | 0 - 5 %  | CAS-Nr: 1306-19-0<br>EINECS-Nr: 215-146-2<br>EC-Nr:              |
| Diantimony trioxide (H351); REACH Reg. No. 01-2119475613-35                                 | 0 - 5 %  | CAS-Nr: 1309-64-4<br>EINECS-Nr: 215-175-0<br>EC-Nr:              |
| Nickel oxide (317-350i-372-413)   | 0 - 5 %  | CAS-Nr: 1313-99-1<br>EINECS-Nr: 215-215-7<br>EC-Nr:              |
| Selenium (H301-373-413)   | 0 - 4 %  | CAS-Nr: 7782-49-2<br>EINECS-Nr: 231-957-4<br>EC-Nr:              |
| Manganese(IV) oxide (H302-332-373); REACH Reg. No. 01-2119452801-43                         | 0 - 20 % | CAS-Nr: 1313-13-9<br>EINECS-Nr: 215-202-6<br>EC-Nr: 025-001-00-3 |
| Zinc oxide (H400-410); REACH Reg. No. 01-2119463881-32-0000                                 | 0 - 15 % | CAS-Nr: 1314-13-2<br>EINECS-Nr: 215-222-5<br>EC-Nr: 030-013-00-7 |
| Barium oxide (H302); REACH Reg. No. 01-2119489177-25-0000                                   | 0 - 12 % | CAS-Nr: 1304-28-5<br>EINECS-Nr: 215-127-9<br>EC-Nr:              |

### Additional information:

#### 4. First Aid Measures

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

###### General information:

Remove contaminated clothes immediately.

###### After inhalation:

Consult physician immediately.

Give artificial respiration in case breathing is not regular or if it has stopped.

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*After skin contact:*

*Remove contaminated clothing. Wash off immediately with plenty of water and soap.*

*After eye contact:*

*Rinse open eyes with plenty of water and call a physician.*

*After ingestion:*

*Do not induce vomiting. Consult physician immediately.*

### 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:*

*Seek medical attention after eye contact and after swallowing.*

---

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*CO<sub>2</sub>, water spray.*

*Unsuitable extinguishing media:*

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

*Special hazards:*

*Do not inhale explosion gases or combustion gases.  
The combustion produces a dense smoke.*

### 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.*

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## 6. Accidental Release Measures

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

*Personal precautions:*

*Wear protective clothing.  
Ensure adequate ventilation.  
Respiratory protection in case of formation of vapors/dust/aerosol.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Keep spills and cleaning runoff out of municipal sewers and open bodies of water.*

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

*Methods and material:*

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*Remove remains with water.*

### 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:*

*Avoid skin and eye contact as well as inhalation of vapors.*

*Hygienic measures:*

*Take off contaminated clothing immediately. Store working clothing separately.*

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

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

*Storage conditions:*

*Store in a cool and dry place.*

*Requirements for storage areas and containers:*

*Information on fire and explosion protection:*

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

*Storage class:*

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

---

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*Glass; oxide (CAS 65997-17-3), TLV (TRGS 900): 0.1 mg/m<sup>3</sup> (long-term value); 0.1 mg/m<sup>3</sup> (short-term value)*

*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:*

*Avoid contact with skin, eyes and clothing.*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke next page: 6*

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*during work. Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Respiratory equipment required in case of insufficient ventilation, filter type P3.*

*Hand protection:*

*Protective gloves (EN 374)*

*Pre-clean the used gloves before removing them and then store these well ventilated. Skin protection (cleaning, care cream).*

*Protective glove material:*

*Nitrile rubber (> 480 min, 0.11 mm).*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

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

---

## 9. Physical and Chemical Properties

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

*Form:* powder

*Color:* colorless to colored

*Odor:* odorless

*Odor threshold:*  
not relevant

*pH-Value:*  
not applicable

*Melting temperature:* 420 - 530°C

*Boiling temperature:*  
not applicable

*Flash point:*  
not applicable

*Evaporation rate:*  
not applicable

*Flammability (solid, gas):*  
not applicable

*Upper explosion limit:*  
no information available

*Lower explosion limit:*  
no information available

*Vapor pressure:*  
not applicable

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*Vapor density:*

*This product is a non-volatile solid.*

*Density:*

*2.4 - 3.3 g/cm<sup>3</sup>*

*Solubility in water:*

*insoluble*

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

*not applicable*

*Auto-ignition temperature:*

*not applicable*

*Decomposition temperature:*

*not applicable*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*not applicable*

*Oxidizing properties:*

*none*

*Bulk density:*

*1.4 - 2.2 kg/dm<sup>3</sup>*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Flow point: > 900°C*

*Softening point: > 580°C*

### 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

*Unknown.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No information available.*

*Thermal decomposition:*

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### 10.5. Incompatible Materials

*Strong acids.*  
*Strong reducing agents.*

### 10.6. Hazardous Decomposition Products

*If heated above 900°C: formation of fumes of inorganic metal compounds.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*No information available.*

*LD50, oral:*

*LD50, dermal:*

*LC50, inhalation:*

*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 relevant data found.*

*Mutagenicity:*

*No relevant data found.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No relevant data found.*

*Specific target organ toxicity (STOT):*

*Repeated exposure: no information available.*

*Single exposure: no information available.*

*Additional toxicological information:*

*Aspiration hazard: no data available*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*No information available.*

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*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*No information available.*

### 12.3. Bioaccumulation

*No information available.*

### 12.4. Mobility

*No information available.*

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

*No data available.*

### 12.6. Other Adverse Effects

*Water hazard class:*

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

*Behaviour in sewage systems:*

*Further ecological effects:*

*Do not let product enter waterways or sewage system.*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*Small quantities can usually be disposed of at landfills.  
Large quantities of the product should not be disposed of on  
landfill sites.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*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 (land transportation).*

*IMDG/IATA:*

*No hazardous goods according to IMDG.*

### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

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*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

### 14.4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

### 14.5. Environmental Hazards

*no*

### 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 store together with foodstuffs.*

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## 15. Regulatory Information

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

*Water hazard class:*

*2, hazardous for water (German Regulation)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Restricted to professional users!*

*Technical instructions on air quality:*

### 15.2. Chemical Safety Assessment

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

### 15.3. Further Information

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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*

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*therefore not be construed as guaranteeing specific properties.*