

# Safety Data Sheet

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



**58956 Plastorit® 0000**

Page 1

Revised edition: 08.07.2020

Version: 7

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

### 1.1. Product Identifier

*Product Name:* Plastorit® 0000

*Article No.:* 58956

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

*Identified uses:*

*Functional mineral*

*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)*

H373  
Cat.: 2

*This product contains 1-10 % airborne crystalline silicium dioxide. Specific target organ toxicity (repeated exposure), hazard category 2*

May cause damage to organs through prolonged or repeated exposure.

*Possible Environmental Effects:*

See Section 12.

### 2.2. Label Elements

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

*Hazard designation:*



GHS08-1

*Signal word:*

Warning

*Hazard designation:*

H373

May cause damage to organs through prolonged or repeated

next page: 2

# Safety Data Sheet

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



**58956 Plastorit® 0000**

Page 2

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

exposure.

*Safety designation:*

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P285	In case of inadequate ventilation wear respiratory protection.
P501	Dispose of contents/ container according to regional, national and international regulations.

*Hazardous components for labelling:*

**2.3. Other Hazards**

*Depending on the use and handling (e.g. grinding, drying) the formation of airborne crystalline silicium dioxid (quartz, cristobalite) is possible.  
Frequent or repeated inhalation of airborne silicate can cause silicosis. The symptoms of silicosis are coughing and breathlessness.*

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**3. Composition/Information on Ingredients**

**3.1. Substance**

**3.2. Mixture**

*Chemical Characterization:*

*Information on Components / Hazardous Ingredients:*

Quartz, Silica (STOT RE1, H372)	30 - 50 %	CAS-Nr: 14808-60-7 EINECS-Nr: 238-878-4 EC-Nr:
Chlorite (hydrated magnesium aluminium silicate)	30 - 50 %	CAS-Nr: 1318-59-8 EINECS-Nr: 215-285-9 EC-Nr:
Mica (potassium aluminium silicate)	20 - 30 %	CAS-Nr: 12001-26-2 EINECS-Nr: EC-Nr:

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*Additional information:*

*Exempted from the mandatory REACH Registration (Annex V No. 7)*

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**4. First Aid Measures**

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

*General information:*

*Seek medical attention in case of complaints.*

*After inhalation:*

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

*After skin contact:*

*Wash with soap and rinse with plenty of water.*

*After eye contact:*

*Rinse open eyes with plenty of water. In case of discomfort seek medical help.*

next page: 3

# Safety Data Sheet

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



**58956 Plastorit® 0000**

Page 3

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

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*After ingestion:*

*No special measures required.*

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

*Symptoms:*

*No acute or delayed symptoms or effects have been observed.  
Frequent or repeated inhalation of airborne silicate can cause silicosis. The symptoms of silicosis are coughing and breathlessness.*

*Effects:*

*No further information available.*

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

*Treatment:*

*No information available.*

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*All extinguishing agents suitable.  
Product itself does not burn.*

*Unsuitable extinguishing media:*

*None known.*

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

*Special hazards:*

*Product is not flammable.  
No special hazards.  
No thermal decomposition.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*No special measures required.*

*Further information:*

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## 6. Accidental Release Measures

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

*Personal precautions:*

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

### 6.2. Environmental Precautions

*Environmental precautions:*

*No special measures required.*

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

*Methods and material:*

*Clean up by moistening product to avoid dust formation or use special vacuum cleaner.*

next page: 4

# Safety Data Sheet

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



**58956 Plastorit® 0000**

Page 4

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

---

## 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 formation of dust. Do not inhale dust.  
Provide adequate ventilation.*

*Hygienic measures:*

*No further measures, see Section 8.*

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

*Storage conditions:*

*Store in closed container and keep product dry.*

*Requirements for storage areas and containers:*

*No special measures necessary.*

*Information on fire and explosion protection:*

*Product is not combustible.*

*Storage class:*

*Further Information:*

*No information available.*

### 7.3. Specific End Use(s)

*Further information:*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*General dust limit*

*Parameters to be controlled (DE):*

*TWA-Value: 3 mg/m<sup>3</sup> air-borne fraction (general dust limit; 8h)*

*Parameters to be controlled:*

*OEL / TWA (8h; inert dust): 6 mg/m<sup>3</sup> (AT; CH); 5 mg/m<sup>3</sup> (FR; NL; SE); 4 mg/m<sup>3</sup> (GB); 3 mg/m<sup>3</sup> (BE; IT; ES)  
Silica, Quartz (8h, TWA): 0.15 mg/m<sup>3</sup> (AT; CH); 0.1 mg/m<sup>3</sup> (FR; NO; GB; SE; ES; BE; DK)*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Use appropriate local exhaust ventilation to control airborne levels.*

*Personal Protection*

next page: 5

# Safety Data Sheet

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



**58956**      **Plastorit® 0000**

Page 5

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

---

*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:*

*In case of formation of dust.*

*Hand protection:*

*Not required*

*Protective glove material:*

*Eye protection:*

*Recommended in case of extreme dust formation (EN 166).*

*Body protection:*

*Environmental precautions:*

*Avoid wind-blown dispersal.*

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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>bright gray</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>8.5 - 9.5 (10% H<sub>2</sub>O)</i>
<i>Melting temperature:</i>	<i>&gt; 1300°C</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not combustible</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>non-combustible</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>2.7 - 2.85 g/cm<sup>3</sup></i>

next page: 6

# Safety Data Sheet

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



**58956 Plastorit® 0000**

Page 6

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

---

*Solubility in water:* negligible

*Coefficient of variation (n-Octanol/Water):*  
not applicable

*Auto-ignition temperature:*  
No information available.

*Decomposition temperature:* > 900°C

*Viscosity, dynamic:*  
not applicable

*Explosive properties:*  
not explosive

*Oxidizing properties:*  
none

*Bulk density:*  
not determined

## 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.  
No decomposition if used according to specifications.

### 10.2. Chemical Stability

The product is stable.

### 10.3. Possibility of Hazardous Reactions

Unknown.

### 10.4. Conditions to Avoid

*Conditions to avoid:*

No further information available.

*Thermal decomposition:*

No data available.

### 10.5. Incompatible Materials

No information available.

next page: 7

# Safety Data Sheet

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



**58956**      **Plastorit® 0000**

Page 7

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

---

## 10.6. Hazardous Decomposition Products

*None known.*

## 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:*

*Non irritating*

*Irritant effect on eyes:*

*Non-irritating to eyes*

*Inhalation:*

*Non irritating.*

*Ingestion:*

*Non irritating.*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*Not mutagenic.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*The classification criteria are not met.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*Single exposure: the substance or mixture is not classified as specific target organ toxicant.*

*Additional toxicological information:*

*The IARC (International Agency for Research on Cancer) notes that crystalline SiO<sub>2</sub> which is inhaled at the working place can cause pulmonary cancer.*

*It can therefore be concluded that the risk of cancer can be reduced by avoiding silicosis (SCOEL SUM Doc 1994-final, June 2003).*

*In June 2003 the SCOEL (EU Scientific Committee on Occupational Exposure Limits) came to the conclusion that silicosis is the major effect of inhaling respirable crystalline silicon*

next page: 8

# Safety Data Sheet

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



**58956 Plastorit® 0000**

Page 8

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

---

*dioxide.*

*Persons who already are suffering from silicosis have a higher cancer risk. The symptoms of silicosis are coughing and breathlessness. The dust level should be measured and controlled continuously.*

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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.*

### 12.4. Mobility

*Weak solubility and mobility.*

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

*This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.*

### 12.6. Other Adverse Effects

*Water hazard class:*

*Not hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*No special effects or hazards known.*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*Product can be taken to a waste disposal site according to local regulations.*

*If product cannot be reused or recycled, it has to be disposed of according to current local regulations.*

*If possible reuse product.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Contaminated packaging must be disposed like the substance.*

*Waste Code No.:*

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## 14. Transport Information

next page: 9



# Safety Data Sheet

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



**58956 Plastorit® 0000**

Page 9

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

---

**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*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*Hazard no.:*

**14.4. Packaging Group**

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

**14.5. Environmental Hazards**

*None*

**14.6. Special Precautions for User**

*not applicable*

**14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code**

*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:*

*0, not hazardous (German Regulation)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

next page: 10

# Safety Data Sheet

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



**58956**      **Plastorit® 0000**

Page 10

Revised edition: 08.07.2020

Version: 7

Printed: 21.08.2020

---

## 15.2. Chemical Safety Assessment

*Exempted from the mandatory REACH Registration (Annex V No. 7)*

## 15.3. Further Information

*Quartz, mica and chlorite are not classified as hazardous substances or preparations by the EEC.*

*ISHL: This product does not contain any hazardous components according to the Industrial Safety and Health Law. Contains silicon dioxide which requires supervision of the airborne level.*

*TCCA: This product does not contain any chemicals which are classified to be toxic, only for limited use or prohibited.*

*DSML: This product does not contain any chemical according to the Dangerous Substances Management Law.*

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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.*

*Silica and Silica-Induced Lung Diseases, V.Castranova, V.Vallyathan & W.E. Wallace (eds.) 1996. CRC Press, pp 418*

*Silica, some silicates, coal dust and para-aramid fibrils, IARC monograph on the evaluation of carcinogenic risk to humans, Volume 68, 1997, pp. 41-242*

*Scientific opinion on the health effects of airborne crystalline silica, A. Pilkington, W.MacLaren, A. Searl, JMC.Davis, JF.Hurley & CA.Soutar, Institute of Occupational Medicine Report TM/96/08, 1996, pp 63*

*Epidemiological evidence on the carcinogenicity of silica: factors in scientific judgement, CA. Soutar, A. Robertson, BG. Millar & A. Scarl, Institute of Occupational Medicine Report, TM/97/09, 1997, pp 34*