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

1. 1. Product Identifier

Product Name:	*Plastorit® 0000*
Article No.:	*58956*
UFI:	*--*

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*
EMail:	*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)

Specific target organ toxicity (repeated exposure), hazard category 2

H373 May cause damage to organs through prolonged or repeated exposure.
Cat.: 2

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:

May cause damage to organs through prolonged or repeated

	H373	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.

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: *Natural mineral powder: chlorite, mica and quartz.*
Leucophyllite, CAS No.: 999999-99-4; EINECS: 310-127-6.
Leucophyllite is a substance of unknown or variable composition, complex reaction product or biological substance (UVCB, type 4) according to REACH and CLP.

Information on Components / Hazardous Ingredients:

Rock-forming minerals	100 %	CAS-Nr: 999999-99-4 EINECS-Nr: 310-127-6 EC-Nr:

Additional information:

The product contains betwenn 1 and 10 % (by weight) fine amount of crystalline silica (quartz, CAS No. 14808-60-7).
Exempted from the mandatory REACH Registration (Annex V No. 7)

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 eye for several minutes under running water. 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 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.

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 thermal decomposition.
No special hazards.

5. 3. Advice for Firefighters

Protective equipment:

No special measures required.

Further information:

6. Accidential 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.

6. 4. Reference to other Sections

Protective clothing, see Section 8.
See Section 13 for information on disposal.

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:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.
Clean contaminated clothing before entering eating areas.
Wash thoroughly after handling.

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:

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

TLV: 0.10 mg/m3

Parameters to be controlled:

Silicium dioxide: EU-BOELV: 0.1 mg/m3 (8h, alveolar fraction) (EU 2017/2398)

Derived No-Effect Level (DNEL):

PNEC (Predicted No-Effect Concentration):

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Use appropriate local exhaust ventilation to control airborne levels.

Personal Protection

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.

9. Physical and Chemical Properties

9. 1. Information on Basic Physical and Chemical Properties

Form:	*powder*
Color:	*bright gray*
Odor:	*odorless*
Odor threshold:	*no information available*
pH-Value:	*8.5 - 9.5 (10% H20)*
Melting temperature:	*> 1300°C*
Boiling temperature:	*not applicable*
Flash point:	*not combustible*
Evaporation rate:	*not applicable*
Flammability (solid, gas):	*non-combustible*
Upper explosion limit:	*no information available*
Lower explosion limit:	*no information available*
Vapor pressure:	*not applicable*
Vapor density:	*No information available.*
Density:	*2.70 - 2.85 g/cm3*
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.

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.
Stable 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. Imcompatible Materials

No information available.

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

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

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:

Quartz has a genotoxic and mutagenic effect, mainly because it has an inflammatory effect. Inhalable quartz did not cause increased HPRT mutations in rat lung epithelial cells in vitro.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

An increased risk of lung cancer is only seen with high occupational exposure to inhalable crystalline silica. The increased risk of lung cancer is limited to people with silicosis.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Repeated exposure: longterm inhalation of high dust levels can cause silicosis.
This disease is a nodular pulmonary fibrosis caused by inhalation and deposition of mineral dust. There is ample evidence that an increased risk of cancer is limited to people who already suffer from silicosis.

Aspiration hazard:

No risk of aspiration.

11. 2. Information on other Hazards

The IARC (International Agency for Research on Cancer) notes

that cystalline SiO2 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 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.

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. Endocrine Disrupting Properties

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

12. 7. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

No special effects or hazards known.

AOX Value:

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.:

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:

14. 5. Environmental Hazards

None

14. 6. Special Precautions for User

not applicable

14. 7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14. 8. Further Information

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:

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 produt 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 classsifed to be toxic, only for limited use or prohibited.

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

Listed in the following inventories:

EINECS (310-127-6), TSCA (US), DSL/NDSL (CA), ENCS/ISHL (JP), KECI (KR), PICCS (PH)

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