

Safety Data Sheet

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



881603 Fixative for Silicate-Chalk

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Revised edition: 11.05.2023

Version: 2

Printed: 08.07.2024

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

1.1. Product Identifier

Product Name: Fixative for Silicate-Chalk

Article No.: 881603

UFI: --

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

Identified uses:
Basic chemical without special defined application.

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)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

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3.1. Substance

3.2. Mixture

Chemical Characterization: modified potassium silicate

Information on Components / Hazardous Ingredients:

Silicic acid, potassium salt (H290-314); REACH 10 - 20 %
Reg. No. 01-2119456888-17

CAS-Nr: 1312-76-1
EINECS-Nr: 215-199-1
EC-Nr:

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Remove contaminated clothes immediately.

After inhalation:

Supply fresh air.

After skin contact:

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

If symptoms persist, consult a physician.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes. Consult physician.

After ingestion:

Rinse mouth with water and drink plenty of water.

If symptoms persist, call a physician.

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:

Product itself does not burn.

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

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No information available.

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.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

Floor may be slippery; use care to avoid falling.

Avoid contact with eyes and skin.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes soil or vegetation.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent material (sand, diatomaceous earth, universal absorbent, Oil Dri) and dispose accordingly.

Clean with water.

6.4. Reference to other Sections

Longterm contact with air causes product to solidify. Use acids for neutralization (careful: risk of splashing): as a result solid silicates/silicic acid can be precipitated.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Provide adequate ventilation.

Avoid the formation of aerosol.

Open and handle container with care.

Hygienic measures:

Avoid contact with eyes and skin.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a dry room.

Do not store together with acids.

Protect from frost.

Requirements for storage areas and containers:

Observe official regulations on storage and handling of water

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hazardous substances.

Suitable container material: Polyethylene, stainless steel, steel.

Information on fire and explosion protection:

Product is not combustible.

Do not store together with: acids.

Storage class:

12; Non-combustible liquids (TRGS 510)

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):

Does not contain any components with workplace limit values.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

0.74 mg/kg bw/d (consumer, skin contact / swallowing, long-term exposure - systemic effects)

Silicic acid:

1.49 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)

1.38 mg/m³ (consumer, inhalation, long-term exposure - systemic effects)

5.61 mg/m³ (worker, inhalation, long-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

Silicic acid:

Fresh water: 7.5 mg/l

Seawater: 0.683 mg/l

Sporadic release: 7.5 mg/l

Sewage treatment system (STP): 346 mg/kg

Additional Information:

8.2. Exposure Controls

Technical protective measures:

No further measures, see Section 7.

Personal Protection

General protective measures:

Remove contaminated clothing immediately.

Avoid contact with eyes and skin.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

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In case of formation of aerosol or mist.

Hand protection:

*Chemical protective gloves (EN 374 (Europe), F739 (US)).
Protective gloves should be changed regularly, especially after
intensive contact with the product.*

Protective glove material:

*Natural rubber (NR), butyl rubber (BR).
Please note the manufacturers' detailed statements, especially
about the minimum thickness and the minimum breakthrough time.*

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>colorless</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	
<i>Melting temperature:</i>	<i>< 0°C Precipitation/crystallization is possible</i>
<i>Boiling temperature:</i>	<i>> 100°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>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 determined</i>
<i>Vapor density:</i>	<i>No information available.</i>

Density:

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<i>Solubility in water:</i>	<i>miscible</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not determined</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	
<i>Explosive properties:</i>	<i>Product does not present an explosion hazard.</i>
<i>Oxidizing properties:</i>	<i>no information available</i>
<i>Bulk density:</i>	

9.2. Further Information

Solubility in solvents:
Viscosity, kinematic:
Burning class:
Solvent content:
Solid content:
Particle size:
Other information:

Contact with acids (e.g. also the slow contact with the carbon dioxide in the air) can cause the precipitation of solid silicic acid.

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.

10.2. Chemical Stability

The product is stable.

10.3. Possibility of Hazardous Reactions

*Exothermic reaction (strong) with acids.
Reactions with base metals: development of hydrogen.
Corrosive to metals.*

10.4. Conditions to Avoid

Conditions to avoid:

Avoid heat.

Thermal decomposition:

Loss of crystal water when heated.

10.5. Incompatible Materials

Acids, metals.

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10.6. Hazardous Decomposition Products

Formation of hydrogen after reaction with metals.

10.7. Further Information

Product sticks on glass walls and etches these.

11. Toxicological Information

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

Acute Toxicity

LD50, oral:

Silicic acid: > 2000 mg/kg (rat)

LD50, dermal:

No information available.

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Slight irritant effect.

Irritant effect on eyes:

Slight irritant effect

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No information available.

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

Aerosols may cause damage to eyes and respiratory system.

12. Ecological Information

12.1. Aquatic Toxicity

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Silicic acid:

Fish toxicity:

LC50: > 100 mg/l

Daphnia toxicity:

EC50: > 100 mg/l (Daphnia magna)

Bacteria toxicity:

EC50: > 100 mg/l

Algae toxicity:

No information available.

12.2. Persistency and Degradability

Inorganic substance. Biological degradability is not affected.

12.3. Bioaccumulation

No bioaccumulation expected.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

Not applicable.

12.6. Endocrine Disrupting Properties

Not listed.

12.7. Other Adverse Effects

Water hazard class:

1 (German Regulation) (Assessment by list): slightly hazardous.

Do not allow undiluted product or large quantities of it to reach ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Must not be disposed together with household garbage.

Do not let product enter water systems.

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

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

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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 classified as a dangerous good under transport regulations.

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:

1, slightly hazardous for water (German Regulation, self-assessment)

Local regulations on chemical accidents:

Seveso-III Directive (2012/18/EU):

Not listed.

Employment restrictions:

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Restriction and prohibition of application:

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out 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)

15.3. Further Information

RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHs): not listed.

Regulation (EC) 273/2004, On Drug Precursors, Category 3: None of the ingredients is listed.

Regulation (EC) No. 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

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.