

Safety Data Sheet

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



97255 C-Bond Glass Strengtheners

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Revised edition: 14.09.2018

Version: 1

Printed: 23.03.2020

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

1.1. Product Identifier

Product Name: C-Bond Glass Strengtheners

Article No.: 97255

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

Identified uses:
Water-based glass strengthener

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)

H318

Cat.: 1

Eye irritation, hazard category 2
Causes serious eye damage.

Possible Environmental Effects:

2.2. Label Elements

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

Hazard designation:



GHS07-1

Signal word:

Warning

Hazard designation:

H318

Causes serious eye damage.

Safety designation:

P264

Wash thoroughly after handling.

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P280	Wear protective gloves/ clothing/ eye/ face protection.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P313	Get medical attention.
P373	Do not fight fire when fire reaches explosives.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Compound of silicium

Information on Components / Hazardous Ingredients:

[3-(2,3-Epoxypropoxy)propyl] trimethoxysilane (H318)	< 3.0 %	CAS-Nr: 2530-83-8 EINECS-Nr: 219-784-2 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

After skin contact:

*Wash off with water.
In case of skin irritation consult physician.*

After eye contact:

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

After ingestion:

*Rinse mouth with plenty of water.
Do not induce vomiting.*

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

Symptoms:

Eye contact: can cause eye irritation.

Effects:

*Serious eye damage/eye irritation can occur after several hours.
Can cause watery eyes, redness and swelling.*

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

Treatment:

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Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, CO₂, dry extinguishing powder.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

No special hazards.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and full protective gear.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

Avoid contact with eyes.

Avoid inhalation of mist/vapor/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:

Contain with absorbent, inert material (sand, earth) and dispose accordingly.

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:

Provide adequate ventilation.

Wear adequate protective clothing (see para. 8).

Hygienic measures:

Wash hands at the end of work. Preventive skin protection recommended.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a well ventilated location.

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Protect from frost.

Requirements for storage areas and containers:

Keep container tightly closed.

Information on fire and explosion protection:

Do not store together with: oxidants.

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):

Does not contain any components with workplace limit values.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

*Ensure adequate ventilation, especially in confined areas.
Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.*

Personal Protection

General protective measures:

Avoid contact with skin, eyes and clothing.

Respiratory protection:

Required in case of insufficient ventilation.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Prevent from getting into the soil, surface water and sewage system.

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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>6.8</i>
<i>Melting temperature:</i>	<i>not known</i>
<i>Boiling temperature:</i>	<i>> 98.9°C</i>
<i>Flash point:</i>	<i>> 98.9°C</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 determined</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>1.07 (H₂O=1)</i>
<i>Solubility in water:</i>	<i>soluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not determined</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>not determined</i>
<i>Viscosity, dynamic:</i>	<i>not determined</i>
<i>Explosive properties:</i>	<i>not applicable</i>
<i>Oxidizing properties:</i>	<i>no information available</i>

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Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

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 further information available.

Thermal decomposition:

10.5. Incompatible Materials

Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Carbon oxides

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

[3-(2,3-Epoxypropoxy)propyl] trimethoxysilane (2530-83-8): LD50: 8025 kg/mg (rat)

LD50, dermal:

[3-(2,3-Epoxypropoxy)propyl] trimethoxysilane (2530-83-8): LD50: 4250 mg/l (rabbit)

LC50, inhalation:

[3-(2,3-Epoxypropoxy)propyl] trimethoxysilane (2530-83-8): LD50: 5.3 mg/l (rat)

Primary effects

Irritant effect on skin:

Non irritating

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Irritant effect on eyes:

Causes serious eye irritation.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No mutagenic effects observed.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No cancerogenic effect known.

Teratogenicity:

No relevant data found.

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: no information available.

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

The product is not considered to be harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Fish toxicity:

*[3-(2,3-Epoxypropoxy)propyl] trimethoxysilane (2530-83-8): LC50: 55 mg/l (96h, *Cyprinus carpio*); LC50: > 100 mg/l (96h, *Oncorhynchus mykiss*)*

NOEC: 180 mg/l; LOEC: 240 mg/l; NOEC: > 100 mg/l (21d)

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

Not readily biodegradable.

12.3. Bioaccumulation

Bioaccumulation is not to be expected.

12.4. Mobility

No data available.

12.5. Results of PBT- und vPvP Assessment

Not classified as PBT substance / Not classified as a vPvB substance.

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12.6. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local 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

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:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

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IMDG:

IATA:

14. 5. Environmental Hazards

None

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

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)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment is not necessary for this product.

15. 3. Further Information

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.