

Safety Data Sheet

according to UK REACH Regulation

Thixotropic agent

Revision date: 30.09.2021

Product code: 210120

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Thixotropic agent

Substance name: Synthetic, amorphous, pyrogenic silicic acid
 CAS No: 112945-52-5

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Gel-like thickening of resins.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company name: R&G Faserverbundwerkstoffe GmbH

Composite Technology

Street: Im Meißel 7 - 13

Place: D-71111 Waldenbuch

Post-office box: 1145

D-71107 Waldenbuch

Telephone: +49 (0)7157 5304-60

Telefax: +49 (0)7157 5304-70

e-mail: info@r-g.de

Internet: www.r-g.de

Responsible Department: Management

1.4. Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg

Tel: +49 (0)761 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

This substance is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements**SECTION 3: Composition/information on ingredients****3.1. Substances****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
112945-52-5	Synthetic, amorphous, pyrogenic silicic acid			> 99,9 %
			01-2119379499-16	

Full text of H and EUH statements: see section 16.

Further Information

Legal information can be found under the general silica: CAS RN 7631-86-9, EINECS RN 231-545-4

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Remove to fresh air. Consult a doctor when complaints persist.

After contact with skin

Washing places concerned with a lot of water and soap. If the symptom doesn't stop, consult doctor.

After contact with eyes

Immediately flush eyes thoroughly with plenty of water for 15 minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. If conscious, give several glasses of water to drink. Never put anything in the mouth of an unconscious person.

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4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Provide symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Silica is not flammable and therefore no extinguishing agents need to be specified.

Unsuitable extinguishing media

none

5.2. Special hazards arising from the substance or mixture

none

5.3. Advice for firefighters

Wear breathing apparatus without recirculating air and suitable protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wearing a personal protective clothing.

6.2. Environmental precautions

Contain product spilled on land if possible. If larger quantities of spilled material cannot be contained, local authorities should be notified.

6.4. Reference to other sections

For further information, see section 8. For further information, see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with the eyes and skin. Do not breathe in dust. Sufficiently good ventilation and extraction must be provided at the processing machines and at places where dust formation is possible. Don't use a brush or compressed air to prevent the raise of dust.

Take precautionary measures against static discharges. All machineparts out of metal must be earthed. Before transfer operations, make sure that all equipment is earthed. Fine dust can penetrate electrical equipment and cause electrical short circuits unless it is absolutely tight.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry and well-ventilated place. Do not store with volatile chemicals as they may be absorbed by the product. Store in ambient conditions. Store in correctly labelled containers.

7.3. Specific end use(s)

According to paragraph 14.4 of the REACH Regulation, no exposure scenario was prepared because the substance is not hazardous.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

TRGS 900 4 mg/m³, TWA, einatembarer Staubanteil (a)

Protective and hygiene measures

Observe the normal safety regulations when handling chemicals.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear protective gloves to avoid drying of the skin. Apply a skin protection cream before handling the product. Wash hands and other exposed skin areas with mild soap and water.

Skin protection

Wear suitable protective clothing. Work clothes should be washed daily. Work clothes should not be taken home.

Respiratory protection

If local exhaust ventilation is not sufficient, an approved respirator may be required.

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Environmental exposure controls

In accordance with all applicable local laws and dust permit requirements.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: Powder
 Colour: white
 Odour: odourless

pH-Value: 3,6 - 4,5

Changes in the physical state

Melting point/freezing point: 1700 °C

Boiling point or initial boiling point and boiling range: 2230 °C

Density (at 20 °C): 2,2 g/cm³

Bulk density: 30-150 kg/m³ DIN/ISO 787:11

Water solubility: slightly soluble OECD 116

Test method**SECTION 10: Stability and reactivity****10.1. Reactivity**

no reaction. Substance is an inert inorganic solid.

10.2. Chemical stability

Stable when stored and handled properly.

10.3. Possibility of hazardous reactions

Dangerous polymerisation does not take place. None in normal processing.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

Further information

This product is an inorganic dust which neither causes nor favours conditions that may lead to fire or explosion. Take measures against electrostatic charges. Avoid dust formation. All metal parts of mixing and processing machines must be earthed. Before decanting ensure that all equipment is earthed.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

oral LD50: rat => 5000 mg/kg

LD50: rabbit => 2000 mg/kg

Irritation and corrosivity

Primary irritation index = 0/8@ 24 hr. Not classified as an irritant (OECD 404).

Sensitising effects

No experimental animal data are available. No cases of sensitisation in humans have been reported.

Aspiration hazard

Based on industry experience and available data, no aspiration hazard is expected.

Additional information on tests

No effects on reproductive organs or foetal development have been reported in toxicity studies in animals.

SECTION 12: Ecological information**12.1. Toxicity**

OECD 203 fish ECO (96 Stunden) > 10,000 mg/l

OECD 202 daphna magna ECO (24 Stunden) > 10,000 mg/l

12.2. Persistence and degradability

The methods for assessing biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Not expected due to the physical and chemical properties of the product.

12.4. Mobility in soil

Migration not expected.

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12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent or very bioaccumulative (vPvB).

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Transfer to a disposal receptacle complying with the local/national legal provisions.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

Hazard statements: According to Regulation (EC) No 1272/2008 (CLP), its various amendments and adaptations, this is not a hazardous substance.

National regulatory information

Water hazard class (D): - - non-hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,14,15.