**Product** Glass filler

**Revision date** 14 November 2017

Revision 1



# **Safety Data Sheet (SDS)**

## Section 1: Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product identifier

Product name Glass filler

**Synonyms, Trade names** No information available.

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified usesReinforcement of plastics.Uses advised againstAny other purpose.

## 1.3 Details of the supplier of the safety data sheet

**Supplier** Renishaw plc

Brooms Road Stone Business Park Stone, Staffordshire

ST15 0SH United Kingdom

+44 (0) 1785 285000 (during UK office hours 09:00 to 17:00 UTC).

Contact person msds@renishaw.com

1.4 Emergency telephone number

**Emergency telephone** 999 / 911 or local emergency number

## **Section 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards Not classified Human health Not classified Environment Not classified

### 2.2 Label elements

**Contains** Not applicable

Label in accordance with (EC) no.

1272/2008

No pictogram required

Signal word No Signal Word

Hazard statements No hazard statements required

**Precautionary statements** No precautionary statements required

# 2.3 Other hazards

This product is not classified as hazardous. The information in this datasheet is given for guidance only.

# Section 3: Composition/identification of ingredients

# 3.1 Substance

Not applicable.

#### 3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
lalace ovide chemicale	CAS-No.: 65997-17-3 EC No.: 266-046-0		60-100%

The full text for all hazard statements are displayed in section 16.

**Composition comments** This product is non hazardous, the information is given for guidance only. The data shown

are in accordance with the latest EC Directives.

#### **Section 4: First aid measures**

#### 4.1 Description of first aid measures

General information Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if

symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during

rescue.

**Inhalation** Remove person to fresh air and keep comfortable for breathing. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Ingestion** If this product is ingested, remove victim immediately from source of exposure. Rinse mouth

thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest. Get medical

attention. Never give anything by mouth to an unconscious person.

**Skin contact** Remove victim immediately from source of exposure. Remove contaminated clothing. Wash

the skin immediately with water. Get medical attention if symptoms persist.

Eye contact Do not rub eye. If dust from use of this product contacts the eyes, gently flush eyes with

water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye.

Seek medical attention.

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

**General information** The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** High dust levels may irritate the respiratory system.

IngestionSkin contactIngestion may cause nausea and irritation to the mouth, throat and digestive system.May cause mechanical irritation or abrasion. May cause temporary irritation in sensitive

individuals.

**Eye contact** Dust may cause mechanical irritation.

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

Notes to the physician Treat symptomatically.

# **Section 5: Fire-fighting measures**

# 5.1 Extinguishing media

**Extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media None noted.

# ${\bf 5.2~Special~hazards~arising~from~the~substance~or~mixture}$

**Hazardous combustion products**Unusual fire & explosion hazards
During fire, toxic gases (CO, CO2) are formed.
No unusual fire or explosion hazards noted.

**Specific hazards** Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

## **5.3 Advice for firefighters**

**Special fire fighting procedures** If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed

spaces before entering them. Containers close to fire should be removed immediately or

cooled with water if safe to do so.

**Protective equipment for firefighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard  $\,$ 

EN 469 will provide a basic level of protection for chemical incidents.

#### Section 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Provide

adequate ventilation. Eliminate all sources of ignition. Avoid inhalation of dust or vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection.

For emergency responders Follow safe handling advice and personal protective equipment recommendations for normal

use of product.

**6.2 Environmental precautions** 

**Environmental precautions** Do not allow ANY environmental contamination.

#### 6.3 Methods and material for containment and cleaning up

Spill clean up methods Take up mechanically. Remove waste promptly to a safe area. Avoid generation and

spreading of dust.

6.4 Reference to other sections

**Reference to other sections** See section 1 for emergency contact. For personal protection, see section 8. For waste

disposal, see section 13.

## Section 7: Handling and storage

#### 7.1 Precautions for safe handling

Handling Use proper personal protection when handling (refer to Section 8). Do not use contact

lenses.

Use local exhaust and general room ventilation, in addition to good hygiene standards, to

prevent accumulation of any dust or fibres in the work area.

# 7.2 Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep the product in its original container. Store in dry, cool, well-ventilated area.

**Storage class** Unspecified storage.

7.3 Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**Usage description** Use only according to directions.

## Section 8: Exposure controls/Personal protection

## **8.1 Control parameters**

**Ingredient comments** No exposure limits noted for ingredient(s).

Workplace Exposure Limits Guidance Note EH40/2005.

The National Institute for Occupational Safety and Health (NIOSH).

# **8.2 Exposure Controls**

# **Protective equipment**



**Engineering measures** 

Personal, workplace atmosphere or biological monitoring may be required to determine the

effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Use respirators and components tested and approved under appropriate government standards such as CEN (EU). If ventilation is inadequate, suitable respiratory protection  $\frac{1}{2}$ 

must be worn. EN 136/140/145/143/149.

Suggested PPE: Half facepiece or full facepiece air-purifying respirator suitable for particulates. (EN149). Particle filter class P1 (EN143). Consult manufacturer for specific

advice.

**Hand protection** Where hand contact with the product may occur the use of gloves approved to relevant

standards (e.g. Europe: EN374) is recommended. Gloves must be inspected prior to use. Suggested material: Butyl-rubber. Consult manufacturer for specific advice on material. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product Use proper glove removal technique (without touching glove's outer surface) to

avoid skin contact with dust residues.

Eye protection Use equipment for eye protection tested and approved under appropriate government

standards such as EN 166(EU). Suggested PPE: Protective goggles with side shield or tightly

fitting protective goggles.

Other protection Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before handing this

product. Protective clothing should conform to EN 13982 for dusts.

**Hygiene measures** Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When

using do not eat, drink or smoke.

**Process conditions** Emissions from ventilation or work process equipment should be checked to ensure they

comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Ensure that eye flushing systems are located close by

in the work place.

# Section 9: Physical and chemical properties

Respiratory equipment

#### 9.1 Information on basic physical and chemical properties

AppearanceSolid.ColourColourless.OdourOdourless.

Odour threshold - lower No information available.

**Odour threshold - upper** No information available.

**pH-Value, Conc. Solution** No information available.

**pH-Value, Diluted solution** No information available.

Melting point 850.00 °C

Initial boiling point and boiling

range

No information available.

**Flash point** No information available.

**Evaporation rate** No information available.

Flammability state No information available.

Flammability limit - lower(%) No information available.

**Flammability limit - upper(%)** No information available.

Vapour pressure No information available.

Vapour density (air=1) No information available.

**Relative density** No information available.

**Bulk density** 400 kg/m<sup>3</sup>.

**Solubility** Insoluble in water.

**Decomposition temperature** No information available.

Partition coefficient; n-

Octanol/Water

No information available.

Auto ignition temperature (°C) No information available.

Viscosity No information available.

**Explosive properties** Not classified as explosive.

Oxidising properties No information available.

9.2 Other information

Molecular weight No information available.

**Volatile organic compound**No information available.

Other information None noted.

## Section 10: Stability and reactivity

#### 10.1 Reactivity

**Reactivity** No reactivity under normal conditions.

10.2 Chemical stability

Stability Stable under normal temperature conditions and recommended use.

# 10.3 Possibility of hazardous reactions

**Hazardous reactions** Product is not dust explosive in its delivered form.

Hazardous polymerisation Will not polymerise.

Polymerisation description Not applicable.

10.4 Conditions to Avoid

**Conditions to avoid** Avoid moisture, heat, flames and sparks.

10.5 Incompatible materials

**Materials to avoid** Keep away from incompatibles such as oxidizing agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours.

# **Section 11: Toxicological information**

## 11.1 Information on toxicological effects

 $\textbf{Toxicological information} \qquad \qquad \text{The product contains no fibres of less than 3} \ \mu\text{m in diameter, which are suspected of having}$ 

carcinogenic potential. Loose glass fibres from damaged packages may cause temporary skin

irritation in sensitive persons.

Acute toxicity (Oral LD50) No information available.

Acute toxicity (Dermal LD50) No information available.
Acute toxicity (Inhalation LD50) No information available.

Serious eye damage/irritation Product is not classified as an eye irritant, however high dust levels in air may cause eye

irritation.

**Skin corrosion/irritation** No information available.

Respiratory sensitisationNo information available.Skin sensitisationNo information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Specific target organ toxicity - Single exposure:

**STOT - Single exposure** No information available.

Specific target organ toxicity - Repeated exposure:

**STOT - Repeated exposure** No information available.

**Inhalation** High dust levels may irritate the respiratory system.

IngestionIngestion may cause nausea and irritation to the mouth, throat and digestive system.Skin contactMay cause mechanical irritation or abrasion. May cause temporary irritation in sensitive

individuals.

**Eye contact** Dust may cause mechanical irritation.

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

Routes of entryNo information available.Target organsEyes, skin, respiratory system.

Aspiration hazards: No information available. Reproductive toxicity: No information available.

## **Section 12: Ecological information**

# 12.1 Toxicity

Acute toxicity - Fish

Acute toxicity - Aquatic invertebrates

Acute toxicity - Aquatic plants

Acute toxicity - Aquatic plants

Acute toxicity - Microorganisms

Chronic toxicity - Fish

Chronic toxicity - Aquatic

Information available.

No information available.

No information available.

No information available.

**Chronic toxicity - Aquatic plants Chronic toxicity - Microorganisms**No information available.
No information available.

**Ecotoxicity** The product components are not classified as environmentally hazardous.

**Eco toxilogical information** No ecological toxicity available on the overall finished product.

# 12.2 Persistence and degradability

**Degradability** The product is not readily biodegradable.

**Biological oxygen demand**No information available. **Chemical oxygen demand**No information available.

# 12.3 Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

**Bioaccumulation factor**Partition coefficient; nNo information available.

Octanol/Water

## 12.4 Mobility in soil

**Mobility** Not soluble in water.

#### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No component classified as PBT / vPvB substance.

## 12.6 Other adverse effects

Other adverse effects None known.

#### **Section 13: Disposal considerations**

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

#### 13.1 Waste treatment methods

**Disposal methods** Dispose of waste and residues in accordance with local authority requirements.

# **Section 14: Transport information**

#### 14.1 UN number

UN no. (ADR)

UN no. (IMDG)

UN no. (IATA)

Not applicable.

Not applicable.

# 14.2 UN proper shipping name

ADR proper shipping name
IMDG proper shipping name
Not applicable.
IATA proper shipping name
Not applicable.

## 14.3 Transport hazard class(es)

ADR class
IMDG class
Not applicable.
IATA class
Not applicable.

**Transport labels** 

# 14.4 Packing group

ADR/RID/ADN packing group Not applicable.

IMDG packing group Not applicable.

IATA packing group Not applicable.

## 14.5 Environmental hazards

 ADR
 No

 IMDG
 No

 IATA
 No

# 14.6 Special precautions for user

EMSNot applicable.Emergency action codeNot applicable.Hazard no. (ADR)Not applicable.Tunnel restriction codeNot applicable.

## 14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Not applicable.

# **Section 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation

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(EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th

May 2010 amending regulation (EC) No 1907/2006.

**Approved code of practice** Workplace Exposure Limits Guidance Note EH40/2005.

Chemical safety assessment No chemical safety assessment has been carried out.

## **Section 16: Other information**

General information This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.

**Revision comments**This is a first issue. **Revision date**14 November 2017

Revision

Safety data sheet status Approved.

## **Hazard statements in full**

#### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.