

**SAFETY DATA SHEET (EC 1907/2006)****Fumed Silica Thixotropic Powder**

Version:	<b>1.45 / GB</b>	Material no.	
Revision date:	<b>01.06.2017</b>	Specification	<b>162300</b>
Issue date:	12.03.2008	VA-Nr	
replaces version:	1.44		
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	<b>Fumed Silica Thixotropic Powder</b>
Chemical Name	Silicon dioxide, chemically prepared
CAS-No.	112945-52-5, 7631-86-9
REACH Registration No.:	01-21 19379499-16-0000 (TPR)

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

Relevant applications identified	Food additive Feed additive Sealants Coloured printing inks Paints and varnishes. Adhesive
Function	Silicone rubber Anticaking agent Antiblocking agents Coating agent Dispersing agent Flow-promoting agent. Reinforcing agent. Carrier

**1.3. Details of the supplier of the safety data sheet**

Company	: Easy Composites Ltd Unit 39 Park Hall Business Village, Longton, Stoke-on-Trent, ST3 5XA
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Telephone	01782 454499
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E-mail address	sales@easycomposites.co.uk
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**1.4. Emergency telephone number**

01782 454499 (office hours only)

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

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not a hazardous substance according to Regulation (EC) No. 1272/2008.

**2.2. Label elements**

**Labelling as per (EU) 1272/2008**

Statutory basis	Labelling not required according to EU-CLP Ordinance (1272/2008).
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**2.3. Other hazards**

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

**SECTION 3: Composition/information on ingredients****3.1. Substances**

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### Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• Silicon dioxide, chemically prepared					
CAS-No.	112945-52-5	EC-No.	231-545-4	REACH-No.	01-2119379499-16-0000 (TPR)
	7631-86-9				
Remarks	Not a hazardous substance or mixture.				

Texts of H phrases, see in Chapter 16

### 3.2. Mixtures

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

In case product dust is released:

Possible discomfort: cough, sneezing

Move victims into fresh air.

#### Skin contact

Wash off with plenty of water and soap.

#### Eye contact

Possible discomfort is due to foreign substance effect.

Rinse thoroughly with plenty of water keeping eyelid open.

In case of persistent discomfort: Consult an ophthalmologist.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water.

After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

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

#### Symptoms

None known

#### Hazards

None known

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

No hazards which require special first aid measures.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Water spray, foam, CO<sub>2</sub>, dry powder.

Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use full-force water jet in order to avoid dispersal and spread of the fire.

### 5.2. Special hazards arising from the substance or mixture

None known

### 5.3. Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment.
- 6.2. Environmental precautions**  
Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.
- 6.3. Methods and material for containment and cleaning up**  
Sweep up or vacuum up spillage and collect in suitable container for disposal.
- 6.4. Reference to other sections**  
Wear personal protective equipment; see section 8.  
Disposal considerations; see section 13.

**SECTION 7: Handling and storage**

- 7.1. Precautions for safe handling**  
If necessary: Local ventilation.
- 7.2. Conditions for safe storage, including any incompatibilities**  
**Advice on protection against fire and explosion**  
Take precautionary measures against static discharges.  
**Storage**  
Keep in a dry place.
- 7.3. Specific end use(s)**  
  
Applications; see Section 1.  
No further information available

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

• Silicon dioxide, chemically prepared			
CAS-No.	112945-52-5 7631-86-9	EC-No.	231-545-4
Control parameters type of exposure	2.4 mg/m <sup>3</sup> Respirable dust.		Time Weighted Average (TWA):(EH40 WEL)
Control parameters type of exposure	6 mg/m <sup>3</sup> Inhalable dust.		Time Weighted Average (TWA):(EH40 WEL)

**8.2. Exposure controls****Personal protective equipment****Respiratory protection**

No special protective equipment required.  
If dust occurs: Dust mask with P2 particle filter

**Hand protection**

Wear protective gloves made of the following materials: material, rubber, leather.  
The material thickness and rupture time data do not apply to non-solute solids / dusts.

**Eye protection**

Safety glasses with side-shields  
If dust occurs: basket-shaped glasses

**Skin and body protection**

No special protective equipment required.  
Preventive skin protection

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**Hygiene measures**

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.  
To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.  
Wash contaminated clothing before re-use.

**Protective measures**

Handle in accordance with good industrial hygiene and safety practice.  
If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.  
If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

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

Appearance			
Form	powder		
Colour	white		
physical state	solid		
Odour	odourless		
Odour threshold:	not applicable		
pH	3.7 - 4.5	(40 g / l)	(20 °C)
	(suspension)		
Melting point/range	ca. 1700 °C		
Boiling point/range	not determined		
Flash point	not applicable		
	solid		
Evaporation rate	not applicable		
Flammability (solid, gas)	not applicable		
Lower explosion limit	not applicable		
Upper explosion limit	not applicable		
Vapour pressure	not applicable		
Vapour density	not applicable		
Density	ca. 2.2 g/cm <sup>3</sup>		(20 °C)
Water solubility	> 1 mg/l		
Partition coefficient n-octanol/water	not applicable		
Autoinflammability	not applicable		
Thermal decomposition	> 2000 °C		
Viscosity, dynamic	not applicable		
	solid		
Explosiveness	Not to be expected in view of the structure		

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Oxidizing properties Not to be expected in view of the structure

### 9.2. Other information

Ignition temperature	not applicable
Minimum ignition energy	not applicable
Tapped density	ca. 50 g / l
Method:	DIN / ISO 787/11

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reactions are known if properly handled and stored.

### 10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

None known  
Stable under normal conditions.  
Product will not undergo hazardous polymerization.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

*No toxicological tests are available on the product.*

Acute oral toxicity LD50 Rat: > 5000 mg/kg  
Method: OECD Test Guideline 401  
comparable product  
Based on available data, the classification criteria are not met.

Acute inhalation toxicity LC0 Rat: 0.139 mg/l / 4 h  
Method: analogous OECD method  
(maximum concentration attainable in experiments)  
No deaths occurred.  
comparable product  
Based on available data, the classification criteria are not met.

Acute dermal toxicity LD50 Rabbit: > 5000 mg/kg  
comparable product  
Based on available data, the classification criteria are not met.

Skin irritation Rabbit  
not irritating  
Method: analogous OECD method  
comparable product  
Based on available data, the classification criteria are not met.

Eye irritation Rabbit  
not irritating

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Method: analogous OECD method  
comparable product  
Based on available data, the classification criteria are not met.

Sensitization	not known
Assessment of STOT single exposure	no evidence for hazardous properties
Assessment of STOT repeat exposure	no evidence for hazardous properties
Risk of aspiration toxicity	No aspiration toxicity classification
Mutagenicity assessment	no evidence of mutagenic effects
Carcinogenicity	No evidence that cancer may be caused.
Toxicity to reproduction	no evidence of reproductiontoxic properties
Human experience	Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.
Further information	An Expert Judgment stated that no classification is necessary based on present knowledge.

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

*No ecotoxicological data is available for this product.*

Toxicity to fish	LC50 (Brachydanio rerio): > 10000 mg/l / 96 h Method: OECD 203 The reported toxic effects relate to the nominal concentration.
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Toxicity in aquatic invertebrates	EC50 Daphnia magna: > 1000 mg/l / 24 h Method: OECD 202 The reported toxic effects relate to the nominal concentration.
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**12.2. Persistence and degradability**

Biodegradability	The methods for determining biodegradability are not applicable to inorganic substances.
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**12.3. Bioaccumulative potential**

Bioaccumulation	Not to be expected.
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**12.4. Mobility in soil**

Mobility	No remarkable mobility in soil is to be expected.
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**12.5. Results of PBT and vPvB assessment**

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

**12.6. Other adverse effects**

Further Information	An Expert Judgment stated that no classification is necessary based on present knowledge.
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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Product**

Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities.

**Uncleaned packaging**

Offer rinsed packaging material to local recycling facilities.  
Other countries: observe the national regulations.

**Waste Key Number**

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

**SECTION 14: Transport information**

**Not dangerous according to transport regulations.**

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

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

Major Accident Hazard Legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. listing: not applicable
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**15.2. Chemical safety assessment**

Chemical safety assessment	No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.
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**SECTION 16: Other information****Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative



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**VOC** volatile organic compounds  
**VwVwS** German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes  
**WGK** Water Hazard Class  
**WHO** World Health Organization