

# HEALTH AND SAFETY PRODUCT INFORMATION

Product: Fine Fill

Date: 4<sup>th</sup> May 2009

Product code: 473009

1.

Name and Address
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2.

Composition/Information on ingredients				
<b>Chemical characterisation</b>				
<b>Description</b>				
Polyester resin with filling material and styrene				
<b>Dangerous components</b>				
<hr/>				
<b>CAS No.</b>	<b>EC No</b>	<b>content unit</b>	<b>danger symbol</b>	<b>R phrases</b>
<b>Identification according to EEC Directive</b>				
<b>Classification</b>				
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100-42-5	202-851-5	13-18 %	Xn	R10, R20, R36/38
STYRENE				
R10				
Xn, R20				
Xi, R36/38				
<hr/>				
14807-96-6	238-877-9	30-60 %		
TALCUM (FREE OF ASBESTOS FIBRES)				
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13463-67-7	236-675-5	< 20 %		
TITANIUM DIOXIDE				
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Full text of R-Phrases: see under section 16.				

3.

Hazards identification
Flammable.
Harmful by inhalation.
Irritating to eyes and skin.
Overexposure may lead to nausea and headache.

4.

### **First-Aid measures**

#### **First aid measures / general indications**

- + Pay attention to self-protection.
- + Remove contaminated clothes without delay.
- + In case of feeling unwell, seek medical advice.
- + **First Aid measures / inhalation**
- + Remove concerned person out of danger area
- + Provide fresh air.
- + Consult a doctor immediately.
- + Irregular breathing/no breathing: artificial respiration
- + In case of unconsciousness place and transport casualty in stable position (lying sideways).
- + **First Aid measures / skin contact**
- + Remove mechanically and wash off with plenty of soap and water.
- + Do not use solvent.
- + Cleaned skin should be rubbed carefully with ointment.
- + If there is skin irritation, consult a doctor.
- + **First Aid measures / eye contact**
- + Rinse immediately with plenty of water with eyelid open (for at least 15 minutes), then send for a doctor immediately.
- + **First Aid measures / ingestion**
- + Do not induce vomiting. Seek immediately for medical attention.

5.

### **Fire-Fighting measures**

#### **Appropriate extinguishing media**

Foam, carbon dioxide, powder (dry chemical)

- + Water fog
- + Extinguishing media that must not be used for safety reasons
- + Water beam
- + Special hazards arising from the product itself, from combustion products or from resulting gases
- + In the event of fire, the following may be used among others:
- + Carbon oxides
- + Special protective equipment for fire-fighters
- + Do not inhale combustion gases.
- + Breathing equipment with independent air supply is necessary.
- + Additional information
- + Cool threatened containers with water in case of fire.
- + Water, contaminated with extinguishing media, must not enter the sewer, collect separately.
- + Dispose fire remainder and contaminated water in accordance with local administrative provisions.

6.

### **Accident release measures**

#### **+ Personal precautions**

- + Observe safety regulations (see section 7 and section 8).
- + Keep away from sources of ignition.
- + Keep away persons not involved.

#### **+ Environmental precautions**

- + Do not allow to enter the ground, natural waters or the drain.
- + If rivers, lakes or waste water lines are contaminated, notify the responsible authorities in accordance with the local laws.

#### **Methods for cleaning up/taking up**

Remove by mechanical means.

- + Collect remainder with non-combustible, liquid binding material (e.g. sand, vermiculite).

Notice section 8.

Dispose of waste material in accordance with the regulations, as described under section 13.

7.

#### Handling and storage

##### Handling

- + Advice on safe handling
  - + Avoid contact with eyes, skin and clothing.
  - + Avoid breathing vapours
  - + Ensure that there is adequate ventilation in the working area, local exhaust recommended.
  - + Advice on protection against fire and explosion
  - + Formation of explosive, highly inflammable vapour-air mixtures are possible.
- Keep away from sources of ignition - no smoking.

##### Storage

- + Always keep in original container.
- Store containers tightly closed, in a fresh, well-ventilated area  
Do not expose to moisture and light.  
Keep away from sources of ignition and heat. Do not smoke.  
Keep away from food, drink and animal feeding stuffs

8.

#### Exposure controls/personal protection

Components for which limit values for exposure at the place of work exist

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Identification according to EEC Directive

CAS No EC No limit value

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##### STYRENE

100-42-5 202-851-5 AGW 20 ml/m<sup>3</sup>

AGW 86 mg/m<sup>3</sup>

No danger of the developmental of toxic effects as long as AGW and BGW are not exceeded.

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##### TALCUM (FREE OF ASBESTOS FIBRES)

14807-96-6 238-877-9 MAK-Grenzwert 2 mg/m<sup>3</sup> A

No danger of the developmental of toxic effects as long as AGW and BGW are not exceeded.

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##### TITANIUM DIOXIDE

13463-67-7 236-675-5 MAK-Grenzwert 6 mg/m<sup>3</sup> A \*)

MAK-Grenzwert 3 mg/m<sup>3</sup> A \*)

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\*) General threshold limit value for dust, TRGS 900 No. 2.4

##### Personal protection

##### Respiratory protection

Provide good ventilation.

Respiratory protection is required when limit values are exceeded.

Use self contained air breathing equipment or filter respirator (for short time use only)

Recommended: filter type A, colour brown.

##### Hand protection

Use skin protective barrier cream

Use protective gloves.

**Recommended:**

**Fluor rubber**

The resistance of the protective gloves to chemicals should be ascertained with the respective supplier. Specific conditions at workplace should be taken to consideration.

**Eye protection**

Wear safety glasses in case risk to eye contact exists.

**Hygiene measures**

+ Apply a suitable skin protective agent before work.

Wash hands before breaks and when ending work.

Do not eat, drink or smoke during work.

Remove contaminated clothes immediately.

Store working clothes separately.

9.

**Physical and chemical properties**

**Appearance**

**Form :** pasty

**Colour :** white

**Odour :** like styrene

**Security-relevant data**

**Boiling temperature**

**Reference value From To**

ca. 145 °C

**Method:** (styrene)

**Flash point:** ca. 31 °C

**Method :** DIN 53213

**Ignition temperature :** ca. 490 °C

**Method :** (styrene)

**Lower explosion limit:** 1.1 % vol

**Method :** (styrene)

**Upper explosion limit:** 8 % vol

**Method :** (styrene)

**Vapour pressure:** 50°C 35 hPa

**Method :** (styrene)

**Density at: 20°C** ca. 1.8 g/cm<sup>3</sup>

**Method :**

**Solubility in water:**

at 20°C 0.30 g/l

**Method :** (styrene)

**Additional data**

The physical data refer to the security relevant component(s) as used, approximate values are given.

10.

**Stability and reactivity**

**Dangerous reactions**

None if properly stored and used.

**Hazardous decomposition products**

None if properly stored and used.

**Thermal decomposition**

None if properly stored and used.

**Additional information (10)**

Avoid excessive heating.

Pay attention to the exothermic reaction with peroxides

11.

**Toxicological information**

This product contains styrene. Styrene irritates the eyes, the skin and the respiratory system, it is harmful if inhaled.

Literature values on styrene:

LD 50, oral, rat: 5000 mg/kg

LC 50, inhalation, 4h, rat: 11,8 mg/kg

12.

**Ecological information**

Do not let it enter into water or sewer.

Literature data on styrene

Acute bacterial toxicity: EC 00 = 72 mg/l Test duration: 16 h 1)

Acute fish toxicity: LC 50 = 17 mg/l

LC 50 = 66 mg/l

Test species = Golden orfe (*Leuciscus idus*) Test duration: 48 h

Acute Daphnia toxicity: EC 50 = 182 mg/l Test duration: 24 h 3)

13.

**Disposal considerations**

Disposal / product

In accordance with local authority provisions, take to an appropriate incineration plant, or dispose in solid form at a waste collection point.

Waste code no. / name of waste

07 02 08

The waste codes quoted are only recommendations. Other waste codes may also be possible with regard to different regional regulations.

14.

**Transport information**

14. Transport information

Land transport / lorry / international / comments

UN-No.: 1866

ADR/RID-GGVS/E: 3/III

Valid for polyesterputty of 5L or more per innerpackaging without hardener

Inland waterway transport / comments

ADN/ADNR non communicated

Sea transport / comments

UN-No.: 1866

Resin solution

IMDG/GGVSee: 3/III

EMS: F-E, S-E

Marine pollutant:

Air transport / comments

**UN-No.: 1866**

**Resin solution**

**ICAO/IATA-DGR: 3/III**

**+ Remark: ADR/IMDG/IATA-DGR Transport**

**+ Polyester resin kit (UN 3269) consist of putty, class 3, packing group III and BPO-hardener (organic peroxide).**

**+ Additional information**

**Inflammable, flash point +31°C**

**Avoid thermal influence**

**Keep away from food and drink.**

**15.**

**Regulatory information**

**Labelling**

**Contains:**

**STYRENE**

**Symbol and indication of danger**

**Xn Harmful**

**R phrases**

**R 10 Flammable**

**R 20 Harmful by inhalation**

**R 36/38 Irritating to eyes and skin**

**S phrases**

**S 02 Keep out of reach of children**

**S 23 Do not breathe vapour**

**S 51 Use only in well ventilated areas.**

**S 38 In case of insufficient ventilation, wear suitable respiratory equipment**

**S 46 If swallowed, seek medical advice immediately and show this container or label.**

**National regulations (D)**

**The legal regulations for limited employment, e.g. the law for the protection of youth work and the decree for the legal protection of motherhood, have to be observed.**

**TA-Luft (Styrene): Class II**

**Class of danger to water (WGK):**

**2 (own assessment, not checked)**

**16.**

**Other information**

**Relevant R phrases**

**R 10 Flammable**

**R 20 Harmful by inhalation**

**R 36/38 Irritating to eyes and skin**

**Sections where no data is entered indicate that no data is known, or no experience is available. This does not justify the assumption that no danger can arise from the relevant point under consideration.**

**The information given is based on the current state of our knowledge and experience.**

Creation date **05.01.09**

Production Management

Replace sheet of **04.01.08**

PHILL BLOWERS

**This leaflet is for general guidance only and may contain inappropriate information under particular conditions. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions.**

