

## Safety Data Sheet according to Directive 91/155/EC

**Revision Date: March 2018**

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### 1) Identification of the substance/preparation and the company

**Trade Name:** Cornelissen Fumed Silica.

**Application:** Artists' Paint or Medium Component.

**Manufacturer/Supplier:**

L Cornelissen & Son Ltd  
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London WC1B 3RY

**Tel:** 020 7636 1045

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**www.cornelissen.com**

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### 2) Hazards Identification

Classification according to Regulation (EC) No 1272/2008

#### Classification

Not a hazardous substance or mixture.

#### Label Elements

Not a hazardous substance or mixture.

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### 3) Composition/Information on ingredients

Product name: Synthetic Amorphous, Pyrogenic Silica

REACH Registration number: 01-2119379499-16

CAS No: 112945-52-5

EC No: 231-545-4

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### 4) First Aid Measures

If inhaled: Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

In case of skin contact: Immediately remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

In case of eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.

If swallowed: Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed:

Inhalation: May cause respiratory irritation.  
Ingestion: No specific health hazards known.  
Skin contact: Prolonged skin contact may cause redness and irritation.  
Eye contact: May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor: No specific recommendations. If in doubt, get medical attention promptly.

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## 5) Fire Fighting Measures

### *Extinguishing media*

Suitable extinguishing media: The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

### *Special hazards arising from the substance or mixture*

Hazardous combustion products: None known.

Specific hazards: None known.

### *Advice for fire fighters*

Special Fire Fighting Procedures: Dike and collect extinguishing water.

Protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6 Accidental Release Measures

### *Personal Precautions, Protective Equipment and Emergency Procedures*

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with skin and eyes. Provide adequate ventilation.

### *Environmental precautions*

Environmental precautions: Do not discharge into drains or watercourses or onto the ground.

*Methods and Materials for Containment and Cleaning Up*

Methods and materials: Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Avoid generation and spreading of dust. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet.

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## 7) Handling and Storage

*Precautions for Safe Handling*

Advice on safe handling: Avoid contact with skin and eyes. Avoid handling which leads to dust formation. Avoid breathing dust. Provide adequate ventilation. Dust may form explosive mixture with air. Storage tanks and other containers must be earthed.

Hygiene measures: General industrial hygiene practice.

*Safe Storage*

Storage conditions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Earth container and transfer equipment to eliminate sparks from static electricity. Stable at normal ambient temperatures. Only store in correctly labelled containers.

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

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## 8) Exposure/Personal Protection

### Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 6 mg/m<sup>3</sup> inhalable dust

WEL = Workplace Exposure Limit

### Exposure Controls

Appropriate engineering controls: Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Control Parameters: WEL: TWA 8 hours 6mg/m<sup>3</sup>

Personal protective equipment

|                                 |   |
|---------------------------------|---|
| Eye/face protection:            | The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.   |
| Skin protection:                | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. |
| Other skin and body protection: | Eye wash facilities and emergency shower must be available when handling this product.  |
| Body Protection:                | Wear appropriate clothing to prevent repeated or prolonged skin contact.  |
| Respiratory protection:         | No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . EN 136/140/145/143/149.   |
| Hygiene measures:               | Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.   |
| Environmental exposure controls |   |
| General advice:                 | No special environmental precautions required.  |

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## 9) Physical and chemical Properties

|                     |                           |
|---------------------|---------------------------|
| Form:               | Powder                    |
| Colour:             | White                     |
| Odour:              | Odourless                 |
| pH, Conc. Solution: | 3.6-4.5                   |
| Boiling Point:      | 2230°C                    |
| Melting point:      | 1700°C                    |
| Density at 20°C:    | 2.2g/cm <sup>3</sup>      |
| Bulk Density:       | 30-150 kg/m <sup>3</sup>  |
| Water solubility:   | Slightly soluble in water |
| Vapour pressure:    | No information available. |

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## 10) Stability and Reactivity

|                                     |   |
|-------------------------------------|---|
| Reactivity:                         | No specific reactivity hazards associated with this product.  |
| Chemical stability:                 | Stable at normal ambient temperatures and when used as recommended.   |
| Possibility of hazardous reactions: | Will not polymerise.  |
| Conditions to avoid:                | Avoid excessive heat for prolonged periods of time. Avoid dust close to ignition sources.   |
| Incompatible materials:             | Materials to avoid - No specific material or group of materials is likely to react with the product to produce a hazardous situation. |
| Hazardous decomposition products:   | Does not decompose when used and stored as recommended.   |

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## 11) Toxicological Information

### Information on toxicological effects

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>mg/kg) 5,000.0

Species Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>mg/kg) 2,000.0

Species Rabbit

#### Skin corrosion/irritation

Animal data Not irritating.

#### Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

#### Respiratory sensitisation

Respiratory sensitisation Not sensitising.

#### Skin sensitisation

Skin sensitisation Not sensitising.

#### Germ cell mutagenicity

Genotoxicity - in vitro Negative.

#### Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

#### Reproductive toxicity

|  |   |
|--|---|
| Reproductive toxicity – fertility                  | Based on available data the classification criteria are not met.  |
| Specific target organ toxicity - single exposure   |   |
| STOT - single exposure                             | Based on available data the classification criteria are not met.  |
| Specific target organ toxicity - repeated exposure |   |
| STOT - repeated exposure                           | Based on available data the classification criteria are not met.  |
| Aspiration hazard                                  |   |
| Aspiration hazard                                  | Based on available data the classification criteria are not met.  |
| Inhalation:  | Dust in high concentrations may irritate the respiratory system.  |
| Ingestion:   | May cause discomfort if swallowed.  |
| Skin contact:                                      | Skin irritation should not occur when used as recommended. Prolonged and frequent contact may cause redness and irritation. |
| Eye contact:                                       | Particles in the eyes may cause irritation and smarting.  |

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## 12) Ecological Information

### *Ecotoxicity*

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### *Toxicity*

Acute Fish Toxicity: Not considered toxic to fish.

Acute Toxicity – Fish: LC50, 96 hours: >10000 mg/l, *Brachydanio rerio* (Zebra Fish) OECD 203

### *Persistence and degradability*

Biodegradability: The product contains mainly inorganic substances which are not biodegradable.

### *Bioaccumulative potential*

The product does not contain any substances expected to be bioaccumulating.

### *Mobility in soil:*

Slightly soluble in water.

### *Results of PBT and vPvB assessment*

Not Classified as PBT/vPvB by current EU criteria.

### *Other adverse effects*

N/A

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### **13) Disposal Information**

General information

The packaging must be empty (drop-free when inverted). Waste should be treated as controlled waste.

Waste Treatment Methods

In authorised dumps, in accordance with Local Authority requirements.

Treat contaminated containers in the same way as product.

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### **14) Transport Information**

Not regulated as a dangerous good.

Not classified as dangerous in the meaning of transport regulations.

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### **15) Regulatory Information**

Safety, health and environmental regulations/legislation specific for the substance or mixture.

No compulsory identification under EC directives and national regulations.

Chemical Safety Assessment: Not applicable.

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### **16) Other information**

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

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To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist