

SAFETY DATA SHEET

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name Microsil ED
Synthetic amorphous silica

Use Additive for use in a wide range of applications including polymers. Filler.

Manufacturer/Supplier: INEOS Silicas Ltd.
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2.0 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	EINECS No.	EC Classification
Synthetic amorphous silica	> 80 %	112926-00-8	2315454	Occupational Exposure Limits
Water	< 20 %	7732-18-5	2317912	

3.0 HAZARDS IDENTIFICATION

EC Classification Not Classified as Dangerous for Supply/Use.

Exposure to any kind of dust is potentially harmful.

4.0 FIRST-AID MEASURES

Eye Contact If substance has got into the eyes, immediately wash out with plenty of water. Obtain immediate medical attention.

Skin Contact Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water. If large amount swallowed or symptoms develop obtain medical attention.

Inhalation Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.

5.0 FIRE-FIGHTING MEASURES

General: Not applicable. Inorganic powder or granules, Non-combustible.

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Revision: v3
MSDS: 0051100
Ref: 1116

Date: 13/02/2003
Page: 1 of 4

6.0 ACCIDENTAL RELEASE MEASURES

Personal Protection	Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling.
General:	See Also Section 8. Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

7.0 HANDLING AND STORAGE

Handling	Avoid generation of dust. See Also Section 8. A considerable static electrical charge can be built up during mechanical handling which may become a hazard in atmospheres containing flammable vapours. Advice on the control of static is given in British Standard BS 5958.
Storage	Keep container tightly closed and dry.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

Synthetic amorphous silica	Silica amorphous, total inhalable dust: UK EH40: OES 6 mg/m ³ 8h TWA, Silica amorphous, respirable dust: UK EH40: OES 2.4 mg/m ³ 8h TWA, Silica gel: ACGIH: TLV 10mg/m ³ 8h TWA. Precipitated silica: ACGIH: TLV 10mg/m ³ 8h TWA.
General:	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
Respirators	Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.
Skin Contact	Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3, Wear suitable overalls.
Eye Protection	Safety spectacles. Goggles.
Other	Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Form	Powder.
Colour	White.
Odour	Odourless.
pH (Value)	3 - 10 at 5% w/w in water.
Melting Point (°C)	> 1000
Flash Point (°C) [Closed cup]	Not applicable.
Flammable Limits (Lower) (%v/v)	Not applicable.

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Date: 13/02/2003
Page: 2 of 4

Solubility (Water)

Insoluble.

10.0 STABILITY AND REACTIVITY

Stability	This product is hygroscopic.
Hazardous Reactions	None known.
Hazardous Decomposition Product(s)	None known.

11.0 TOXICOLOGICAL INFORMATION

Acute Toxicity	The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg. Synthetic amorphous silica is a permitted food additive in the UK, US and many other countries.
Inhalation	Synthetic amorphous silica has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However, existing medical conditions (eg. asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of exposure in smokers compared to non-smokers.
Eye Contact	Dust may cause discomfort and mild irritation.
Skin Contact	Dust may have a drying effect on the skin.
Carcinogenicity Information	IARC assessment: Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3).

12.0 ECOLOGICAL INFORMATION

Ecotoxicity	Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment.
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13.0 DISPOSAL CONSIDERATIONS

Recommended:	Disposal should be in accordance with local, state or national legislation. This product normally causes no problems in sewage treatment works, where it settles with the sewage sludge. This material is not classified as hazardous waste under EEC Directive 91/689/EEC. This material is not classified as special waste under the UK Special Waste Regulations 1996. May be disposed of by landfill in accordance with local regulations.
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14.0 TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

Packaging	No special packaging requirements.
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15.0 REGULATORY INFORMATION

EC Classification	Not Classified as Dangerous for Supply/Use.
Safety Phrases	Handle in accordance with good industrial hygiene and safety practices. Avoid inhalation of dusts.

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Date: 13/02/2003
Page: 3 of 4

TSCA Inventory Status: Reported/Included. CAS No. 7631-86-9
AICS Inventory Status: Reported/Included.
DSL/NDSL Inventory Status: Reported/Included.
FDA: Silicon dioxide 21CFR 172.480

16.0 OTHER INFORMATION

The following sections contain revisions or new statements: All sections.

MSDS first issued	11/02/1999
MSDS data revised	13/02/2003

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Page: 4 of 4