

1. Identification of the substance and Company

Product Name: Space therm

Synonyms: Silica gel, trimethylsilylated; silica aero gel materials bonded on Calcium Sulphate Dihydrate Encased in paper liners, may contain small amounts of quartz, chopped glass fibre, micro silica, vermiculite or man made fibres.

Use of the Substance/Preparation: High performance insulation material

Manufacturer: A Proctor Group Ltd

Address: The Haugh Rattray Blairgowrie Perthshire PH10 7ER

Supplier: A Proctor Group Ltd Blairgowrie Perthshire PH10 7ER

Telephone 01250 872261 Emergency Number 01250 876 876

2. Composition

Ingredients CAS Number EINECS Number EU Classification

Silica gel, trimethylsilylated Cas No 126877-03-0. EINECS Not Assigned. EU Classification None

Polyethylene terephthalate (PET or polyester) Cas No 25038-59-9. EINECS Not Assigned. EU Classification None

Calcium Sulphate Dihydrate encased in paper liners.

BSK 936 Foil Vapour Barriers

PVA Adhesive

Ingredient concentrations are considered proprietary business information.

3. Hazards Identification

Most important hazards: Inhalation of excessive amounts of dust from the product may cause mechanical irritation to the respiratory tract.

Specific hazards: Eye Contact: Exposure to dust from this product can produce a drying sensation and mechanical irritation of the eyes.

Skin Contact: Skin contact with dust from this product can produce a drying sensation and mechanical irritation of the skin and mucous membranes.

Ingestion: This material is not intended to be ingested (eaten). If ingested in large quantity, the material may produce mechanical irritation and blockage.

SECTION 3 NOTES: This product is composed of amorphous silica dioxide, often referred to as silica gel or Amorphous precipitated silica. Amorphous silica should not to be confused with crystalline silica. Epidemiological studies indicate low potential for adverse health effects from exposure to amorphous silica.

4. First aid measures

Eye Contact: Immediately wash with large amounts of water for at least 15 minutes, occasionally lifting lids. If irritation occurs and persists, get medical treatment.

Skin Contact: Wash skin thoroughly with soap and plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Obtain medical attention if symptoms occur.

Ingestion: Material will pass through the body normally.

Inhalation: Remove to fresh air. Drink water to clear throat and blow nose to remove dust. Obtain medical attention if ill effects persist.



5. Fire fighting measures

Suitable extinguishing media: Water, Foam, Dry Powder extinguishers are suitable media, observing normal fire fighting practices.

Unsuitable extinguishing media:

Special hazards in fire:

Unusual Fire and Explosion Hazards: Rapid exposure of the product to excessive heat or flame can generate local concentrations of combustible vapors. Product is a super-insulation material.

Hazardous Decomposition Products: Primary combustion products are carbon monoxide and carbon dioxide. Other undetermined products could be released in small quantities.

Plaster board is fire resistant, but facings may burn.

Required special protective equipment for fire-fighters: Wear full protective equipment and breathing apparatus

6. Accidental release measures

Personal precautions: Minimize dust generation. Ensure adequate ventilation. Use personal protective equipment as necessary.

Environmental precautions: Not known to have any adverse effects on the aquatic environment. Material is not soluble.

Methods for cleaning: Contain and collect released material for disposal. A HEPA-filter equipped vacuum is the preferred method of cleaning up. Do Not Brush or wet material. Full COSHH Assessment should be done prior to using material.

7. Handling and storage

Handling: Technical measures/precautions: This product will generate dust when handled. Workplace exposure to all dusts should be controlled with good housekeeping practices, as follows:

- Local exhaust ventilation should be the primary dust control method.
- Mechanical cutting is best done with a jigsaw, over a plastic sheet to contain dust, wearing dust mask and goggles.
- Clean the work environment regularly (a few times a day) using a HEPA filter vacuum (not a broom or water).
- Workers should use latex or nitrile gloves, goggles and respiratory protective masks when working in an environment where exposure is likely to exceed legal limits .
- Clothing should cover arms and legs, preferably disposable overalls to minimise skin contact.
- **When manual handling this product use correct manual handling techniques:**

Storage: Technical measures/storage conditions: The product should be kept in their packaging until they are ready to be used.

- Unpack the material in the work area, to minimize the area where dust exposure may occur.
- Trimmed material and scrap should be promptly packed in disposal bags; this will help minimize dust to other areas.

8. Exposure Controls/Personnel Protection

Workplace Exposure Levels (WEL)

Engineering measures: Enclosure, Local Exhaust Ventilation.

Control Parameters: Satisfactory Control Compliance with Workplace Exposure Limits (EH40/2007)

Silica Amorphous: Total Inhalable dust 6 mg.m-3 (8hr TWA) Respirable dust 2.4mg.m-3 (8hr TWA)

Plaster: Total Inhalable 10mg/m3 (8hrTWA) Respirable 4mg/m3 (8 hr TWA)

Maximum Exposure Limits (MEL)

Quartz (silica): Total Inhalable 0.3mg/m3 (8hr TWA)

MMMMF: (Man made mineral fibres) 5mg/m3 (8hr TWA gravimetric method)



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Personal protection equipment: Disposable coveralls (not mandatory)

Inhalation: Wear FFP3 mask or equivalent to EN 149:2001

Eye protection: Goggles/safety glasses to EN 166 (wash dust off after use)

Hand protection: Latex ordinary grip gloves or nitrile to BS EN 388:1994 (dispose after use)

Hygiene measures: Contain and collect released material for disposal. A HEPA-filter equipped vacuum is the preferred method of cleaning up. Do not brush or wet material. **Full COSHH Assessment should be done prior to using this product.**

9. Physical and Chemical Properties

Appearance: Black or White Layered Blanket on white board.

Odour: May smell of ammonia

PH: Not applicable

Boiling point: Not applicable

Melting point: Not applicable

Flashpoint: Not applicable

Explosive properties: Not applicable

Vapour pressure: Not applicable

Relative density: Not applicable

Solubility: Soluble in water blanket only

10. Stability and reactivity

Chemical Stability: Stable

Conditions to Avoid: Prolonged exposure to temperatures above the recommended use temperature. Avoid conditions that produce large quantities of dust dispersed in air.

Materials to Avoid: Avoid strong acids and bases.

Hazardous Decomposition Products: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating or reaction with another material.

Materials to avoid: Hazardous decomposition products:

11. Toxicological information

Acute Toxicity: Dust may cause mechanical irritation and dryness to eyes and skin.

Oral LD50: >5,000 mg/kg

Inhalation LC50: >2,000 mg/m³

Dermal LD50: >3,000 mg/kg

Eye Irritation: Synthetic amorphous silica and silicates are not irritating to skin and eyes under experimental conditions, but may produce dryness following prolonged and repeated exposure.

Skin Irritation: Synthetic amorphous silica and silicates are not irritating to skin and eyes under experimental conditions, but may produce dryness following prolonged and repeated exposure.

Chronic Toxicity: Some studies of long term amorphous silica dust exposures indicate a potential for decreased lung function. In surveyed studies, this effect is characterized as compounded by smoking. Additionally, surveyed studies characterize the decreased lung function effect as reversible on discontinuation of exposure.



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12. Ecological information

Aquatic Toxicity: Fish: LC50 > 10,000 mg/L (Brachydanio rerio: 96 hour), Method OECD 203 Daphnia magna: EC50 > 10,000 mg/l (24 hours), Method OECD 202.

Mobility: None expected due to insoluble nature of product.

Persistence and Bio degradable: Not applicable for inorganic material.

Bio accumulative Potential: None expected due to insoluble nature of product.

Other Adverse Effects: None expected.

Note to sect 12: Ecological information is based on literature review for synthetic amorphous silica (CAS No. 7631-86-9)

13. Disposal Considerations

Product: Dispose as building site rubble or inert waste at an authorized landfill site in accordance with local waste management regulations.

14. Transport information

Classification data: Shipping Name: Not regulated for transport

Hazard Class: None

UN Number: None

Packing Group: None

Required Label(s): None

Marine Pollutant: No

Additional Information: None

15. Regulatory information

Gypsum Fiberboards' are classified as hazardous under EEC directive 67/548 for the classification, packaging and labeling of hazardous substances (as amended by EEC directive 93/21)

National Regulations Gypsum Fibreboards are not classified as a notifiable material under the Ordinance on Hazardous Material. This product is not considered as hazardous waste material according to the Waste Disposal Regulations although it should be placed in plastic bags due to the dust, or covered immediately if skipped.

INTERNATIONAL REGULATIONS: Amorphous silica, CAS RN 7631-86-9, is listed on the WHMIS Ingredient Disclosure List at a concentration threshold of 1 %.

16. Other Information

Section 11 Toxicity Information Reference: United Nations Environmental Programme (UNEP), Organization for Economic Co-operation and Development (OECD) Screening Information Data Set (SIDS) Initial Assessment Report, Synthetic Amorphous Silica, July 23, 2004.

Safety Data Sheet This safety data sheet replaces all previous versions. version 4 dated 25.04.2009

Revision Date: Annually reviewed. 1 December 2009 or if changes to product/manufacturing process.

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