
MATERIAL SAFETY DATA SHEET

No Classification under EEC Directive 76/548/EEC

Refer Worksafe Australia Classifying Clause 1.14

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product Name Isofrax®

Other Names: Isofrax® Bulk Fibre
Isofrax® Blanket
Isofrax® Modules
Isofoam®

UN Number None
DG Class None
Manufacture's Product Code None
Hazchem Code None
Poisons Schedule None
Product Use Heat Insulation

Manufacturer/Supplier: Unifrax Limited
Mill Lane, Rainford
St. Helens
Merseyside 20 WA118L
UK

Unifrax Australia Pty. Ltd.
336 Settlement Road
Thomastown 3074
Victoria
Australia

Contact Details: See Page 7

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2. HAZARDS IDENTIFICATION

Flammability

Fire Hazards: Non Flammable

Explosive Hazards: Not Explosive

Health Hazards: Irritating to eyes, skin, respiratory system and disturbances to Gastro intestines.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients: Amorphous Magnesium Silicate

| <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
|------------------|------------|-------------------|
| SiO ₂ | | 70 - 77% |
| MgO | | 19 - 26% |
| Trace elements | | 0 - 4% |

4. FIRST AID MEASURES

Ingestion Drink large volumes of water.

Eye Flush eyes with water

Skin Rinse affected areas with water and soap. Do not use detergent.

Inhalation Remove to fresh air and blow nose to evacuate fibres.

First Aid Facilities Eye wash facilities are recommended if eye contact is probable.

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4. First Aid Measures cont'd:

Advice to Doctor Acute irritation and/or inflammation are due to mechanical action.

5. FIRE FIGHTING MEASURES.

Fire Explosion Hazard: Not Flammable and not explosive.

**Hazardous Reactions/
Decomposition Products** Refer to HANDLING INFORMATION

Hazchem Code: None Allocated.

6. ACCIDENTAL RELEASE MEASURES

**Spills or Release
To the Environment** Do not flush to drain. Prevent entry to waterways. Do not allow to be windblown.

Use vacuum cleaning equipment fitted with HEPA filters to collect debris. Use dust extraction equipment. Avoid procedures that will generate airborne fibres.

7. HANDLING & STORAGE

Storage Precautions: Keep packaged in original packaging when not in use.

Handling: Use of protective clothing (ie gloves, clothing, glasses) to reduce possible irritation is recommended.

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8. EXPOSURE CONTROLS & PERSONAL PROTECTION

| Exposure Controls: | Name | CAS No. | Exposure |
|---------------------------|-------------------|----------------|-----------------|
| | Magnesia Silicate | 65997-17-3 | TWA 0.5 f/ml** |

** National Occupational and Safety Commission - National Code of Practice for the safe use of Synthetic Fibres.

This product possesses a fiber chemistry within the regulatory (European Commission Directive 97/69/EC) definition as a "man-made vitreous (silicate) fiber with random orientation with alkaline oxide and alkaline earth oxide (Na₂O + K₂O + CaO + MgO + BaO) content greater than 18% by weight". Isofrax® fibers have been tested pursuant to EU protocol ECB/TM/26, rev. 7, Nota Q, Directive 97/69/EC. The results for the short term biopersistence test by inhalation (IH test) was 6 days; well below the regulatory threshold of 10 days cited in Directive 97/69/EC. Based on testing results, Isofrax® based products are not regarded as potential carcinogens and they ARE EXEMPT from European classification as such. By virtue of these test results, these products ARE EXEMPT from European regulatory guidelines that require hazard warning labels with specific risk phrases citing respiratory disease potential. In addition, Isofrax® fibers have been tested in an independent laboratory, by intratracheal (IT test) instillation, under a protocol that was consistent with the requirements of the German Hazardous Substances Ordinance (BGBI. I pp. 1782, 2049, Third Amendment, Appendix V, No. 7). The half-life clearance of Isofrax® fibers was 32.7 days; well below the applicable regulatory thresholds. Based on the IT test results, Isofrax® products ARE EXEMPT from the requirements of the German Ordinance.

The definition of "irritant" contained in the hazard communication standard, 29 CFR 1900.1200, Appendix A, is "...a reversible inflammatory effect on living tissue by chemical action...". Isofrax® fiber is an inert material which doesn't interact chemically with exposed skin. However, there is a possibility that exposure to this product may cause temporary mechanical irritation to the eyes, skin or respiratory tract (nose, throat, lungs). This temporary irritation can be mitigated with proper handling practices designed to limit exposure and the use of protective clothing (glasses, gloves, clothing).

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8. Exposure Controls & Personal Protection cont'd:

Personal Protection: Respirators are recommended. All respirators used shall comply with the provisions of AS1715 and 1716. Gloves are recommended to avoid skin irritation. Safety eyewear is also recommended particularly for overhead work.

9. PHYSICAL & CHEMICAL PROPERTIES

| | |
|---------------------------------|-----------------------|
| Appearance | White Odourless Fibre |
| Boiling/Melting Point | >1500°C |
| Vapour Pressure | Not determinable |
| Specific Gravity | 2.6 |
| Flash Point | Not determinable |
| Flamm. Limit | Not determinable |
| Solubility in Water(g/L) | < 0.1 |

10. STABILITY & REACTIVITY

Stability: Stable under normal conditions of use.

Hazardous Reactions Refer to SAFE HANDLING INFORMATION
Decomposition Products

11. TOXICOLOGICAL INFORMATION

Toxicology This product has been the subject of limited testing.

A review of available scientific literature suggests an inverse relationship between dissolution rate and potential health effects; i.e. the higher the dissolution rate of a fiber the lower its potential to produce health effects. The dissolution rate of Isofrax™ fiber has been determined through standardized *in vitro* testing. The dissolution rate of Isofrax™ fibers is higher than that of other fiber types that have been tested in chronic animal studies and did not produce respiratory disease.

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11. Toxicological Information cont'd:

Epidemiology

This product has not been the subject of epidemiological study. Epidemiological studies related to other fiber chemistries of similar solubility have not identified a statistically significant incidence of exposure-related respiratory disease

12. ECOLOGICAL INFORMATION

Not Available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Place in plastic containers and dispose in accordance with local government provisions.

14. TRANSPORT INFORMATION

No special transport requirements are necessary.

| | |
|-------------------------|----------------|
| UN Number | None Allocated |
| Shipping Name | None Allocated |
| DG Class | None Allocated |
| Packaging Group | None Allocated |
| Hazchem Code | None Allocated |
| Poisons Schedule | Not Scheduled |

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15. REGULATORY INFORMATION

| | |
|--------------------------|--|
| Risk Statement: | R40 (3) Possible risk of irreversible effects. R36/37/38 Irritating to eyes, respiratory system and skin. |
| Safety Statement: | S22 Do not breathe dust. S52 Avoid contact with eyes. S38 In insufficient ventilation, wear suitable respiratory equipment. S40 To clean floor and all objects contaminated by this Material, use AS approved HEPA fitted vacuum cleaner. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. |
| Hazard Category: | Harmful, irritant. |
| Poisons Schedule: | Not scheduled. |

16. OTHER INFORMATION

| | | |
|---|-----------------------|---------------------|
| Contact: | During Business Hours | Ph: +61 3 9463 7100 |
| Emergency / After Hours Contact: | | Peter Willoughby |
| | | Ph: 0409 288 917 |

References: Replaces MSDS dated 19 March 2012.

Unifrax Australia Pty. Ltd.

336 Settlement Road

Thomastown, VIC 3074

ACN 093 625 757

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ISOFRAX®

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.....End of Report.....

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