SEKISUI FOAM AUSTRALIA
1 – 5 Parraweena Road, Taren Point
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TECHNICAL INFORMATION

MATERIAL SAFETY DATA SHEET

Thermobreak®

Introduction

This Safety Data Sheet contains the following information and advice.

Contents

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TECHNICAL INFORMATION

1. Identification of:

1.1 Product

Thermobreak®
Thermobreak® Sheet
Thermobreak® Tube
Thermobreak® Plain
Thermobreak® LS
Thermobreak® LS 9705 Sheet
Thermobreak® LS 9705 Tube
Thermobreak® LS-F Sheet
Thermobreak® LS-F Tube
Thermobreak® LSH
Thermobreak® RT
Thermobreak® RT-M
Thermobreak® 9705
Thermobreak® Thermacoil™
Thermobreak® No-Clad™ Sheet
Thermobreak® No-Clad™ Tube
Thermobreak® Acoustiplus™
Thermobreak® Acoustiplus™ Plain
Thermobreak® Acoustibox™
Thermobreak® Ductboard
Thermobreak® Thermowrap

1.2 Company

Sekisui Foam Australia
1-5 Parraweena Road
Taren Point NSW 2229
Sydney Australia

Ph: (61) 2 9525 9880
Fax: (61) 2 9525 8004

2. Product Description

Thermobreak® is a foil faced physically crosslinked polyolefin foam insulation material containing flame retardant additives and is produced in a continuous web process. Thermobreak® is based on PE homo and copolymers and foamed with an organic foaming agent by chemical decomposition. The two following gases are mainly produced:

- Nitrogen (N_2)
- Carbon dioxide (CO_2)

Both are known as non-depleting substances to the ozone layer.

3. Hazards Identification

Health Effect: Not classified as hazardous according to EU Regulation 1272/2008/EC (CLP/GHS) and Australian WHS Regulations.

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The formulations used in Thermobreak® will not prevent the foam from burning at high temperature, but will show improved fire retardant properties in terms of reduction of fire ignition and fire spread in well-defined burn tests such as AS1530.3. Subject to reasonable care and cleanliness there are no obvious problems associated with the handling of polyolefin foams.

4. First Aid Measures

After contact with skin:	No special measures with usage at normal temperatures.
After contact with eyes:	Flush thoroughly with flowing water.
After inhalation:	No special measures with usage at normal temperatures.
After swallowing:	If ingested, induce vomiting by drinking a large volume of water or salt water. Seek medical attention.

In case of fire:
If smoke gases are inhaled, which contain mainly carbon dioxide (CO_2) and carbon monoxide (CO), fresh air and possible artificial respiration (seek medical attention immediately) are the recommended measures.

If body skin is burned through contact with molten material, cool burned parts with water but do not remove from the skin. If skin burn degree 2 or 3 is reached, seek medical attention immediately.

5. Fire Fighting Measures

Fire extinguishing mediums are:

- Dry chemical
- Water spray
- Extinguishing foam
- CO_2 extinguisher

Use respirator/oxygen masks in enclosed areas. Avoid dense smoke and do not inhale the smoke gases from combustion.

Use safety glasses and protect skin/body with protective clothing.

6. Accidental Release Measures

Not applicable.

7. Handling and Storage

Handling:
Practice reasonable care as a normal safety precaution. The working environment should be kept clean and free of dust.

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Storage:
Practice reasonable care and cleanliness; provide adequate distance between stacks as a safety precaution. Store inside with adequate ventilation and keep dry, away from direct sunlight. Keep in original packing until required. Do not expose to any source of flame, ignition or heat.

8. Exposure Controls/Personal Protection

Breathing protection:
When sawing Thermobreak® No-Clad™ or Thermobreak® LSH, wear a dust mask with minimum P1 rating, in order to protect from any air-borne glass fibres cut from the foil reinforcement layer.
Hand protection:
Use safety gloves when handling rolls/cutting product with knife.

When handling or sawing Thermobreak® No-Clad™ or Thermobreak® LSH, wear gloves and long sleeved garments to prevent irritation from any exposed or loose glass fibres from the foil reinforcement layer.

Eye protection:
When sawing Thermobreak® No-Clad™ or Thermobreak® LSH, wear safety glasses or goggles.

Body protection:
When handling or sawing Thermobreak® No-Clad™ or Thermobreak® LSH, minimise skin exposure by wearing long sleeve clothing, long leggings and shoes to prevent irritation from any exposed or loose glass fibres from the foil reinforcement layer.

9. Physical and Chemical Properties

Appearance:
Semi rigid physically crosslinked polyolefin foam web, faced with reinforced aluminium foil.

Odour:	Odourless
Softening range:	≥100 – 130°C
Autoflammability:	≥300°C
Thermal decomposition:	>160 – 180°C
Explosive properties:	None
Solubility in water:	Insoluble
organic solvents:	Insoluble, partly soluble, swelling; depending on solvent type

10. Stability and Reactivity

Avoid:

Any temperature (over period >10 minutes)	>160 – 180°C
Any contact with strong oxidising chemicals	

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11. Toxicological Information

Toxicologically harmless:
Physically crosslinked polyolefin foams are among the most inert polymer foams and constitute no hazard in terms of normal handling. Thermobreak® formulations contain FR (Flame Retardant) additives based on organic compounds, which may irritate the skin of sensitive persons.

12. Ecological Information

Environmentally harmless:

- Insoluble in water.
- Insoluble in most solvents.
- Free of heavy metals and plasticisers.
- Non-degradable by UV light when properly installed (foil faced Thermobreak® products).
- Thermobreak® Plain or Thermobreak® Acoustiplus™ Plain degradable by prolonged UV exposure.

Ozone layer depleting substances:
Thermobreak® does not contain and is not produced with any of the substances mentioned in the "Montreal Protocol" of ozone depleting substances and in the corresponding EC Regulation 2009/1005:

- Chlorofluorocarbons (CFCs)
- Hydrochlorofluorocarbons (HCFCs)
- Carbon Tetrachloride
- 1,1,1-Trichloroethane
- Methyl Bromide
- Hydrobromofluorocarbons (HBFCs)

13. Recycling & Disposal Considerations

Re-use:
Remnant material may be reused directly, e.g:

- Cushion packaging material
- Insulation material in building renovation

Recycling:
Ask our Sales Engineers about product specific recycling possibilities.

Disposal:
When disposing of any waste, observe all applicable national and local regulations. Thermobreak® may be disposed of by:

- Landfill
  Physically crosslinked polyolefin foam is inert and does not degrade, it forms a permanent soil base and releases no gases or chemicals known to pollute water resources.

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- Incineration
  Incinerate using properly controlled municipal or industrial incineration systems. Plastic materials, such as physically crosslinked polyolefin foam, have high heat values and should only be incinerated in units designed to handle high combustion heat.

14. Transport information

No restrictions and non-hazardous material in relation to transportation regulations.

15. Regulatory information

No regulations apply in relation to classification, packaging and identification, also applicable to health and environmental care.

16. Other information

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe the product from the point of view of safety requirements, and is not intended to guarantee any particular properties.