

MATERIAL SAFETY DATA SHEET

1. SUPPLIER INFORMATION

Supplier SIMCO INTERNATIONAL PTY LTD
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Trade/Product Name Thermoshield® Sheets, Tubes

2. PRODUCT DESCRIPTION AND IDENTIFICATION

Thermoshield® is a foil faced , closed cell crosslinked polyolefin foam insulation material containing flame retardant additives. Thermoshield® is available in rolls, sheets and tube profiles at various dimensions.

Product Name: Thermoshield® Insulation - Sheets, Tubes
Other Name(s): Not applicable
Identification Numbers: TS05-FX, TS10-FX, TS12-FX, TS15-FX, TS20-FX, TS25-FX, TS40-FX, TS50-FX, TS05-FA, TS10-FA, TS12-FA, TS15-FA, TS20-FA, TS25-FA, TS40-FA, TS50-FA,
UN Number: Not applicable
Dangerous Goods Class: Not applicable
Packaging Group: Not applicable
Hazchem Code: Not applicable
Poison Schedule: Not applicable
Use: Thermal insulation for building, air conditioning ducts and refrigeration

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Formula	Concentration	CAS No.
Polyolefin Resin	Polyethylene	~ 65-85%	9002-88-4
Blowing Agent	Azodicarbonamide	~ 13 -20 %	123-77-3
Other fillers & additives		~ 4 - 12%	

4. HAZARD IDENTIFICATION

Hazchem classification None. No special hazards known.

Thermoshield® foam insulation will burn when provided with an adequate amount of heat and oxygen, at relatively high temperatures, and therefore do not expose the material to any flame or other source of ignition or heat. However, Thermoshield® which contains flame retardant additives will show improved fire retardant properties in terms of reduction of fire ignition and flame spread in well-defined burn tests such as AS1530.3.

5. FIRST AID MEASURES

Eye	Exposure is unlikely. Flush eyes thoroughly with running water after contact.
Inhalation	Exposure is considered very unlikely. No special measures required.
Skin	Non-allergic.. No special measures required for handling.
Ingestion/swallowing	If ingested, induce vomiting by drinking a large amount of water. In case of swallowing, seek medical advice immediately
In case of Fire	<p>If smoke gases are inhaled, which contain mainly carbon dioxide (CO₂) and carbon monoxide (CO), breathe with fresh air or artificial respirator, and seek medical attention immediately if required.</p> <p>If body skin is burned through contact with molten material, cool burned parts with water but do not remove from the skin. Seek medical attention immediately.</p>

6. FIRE FIGHTING MEASURES

Extinguishing Media	Water spray, extinguishing powder, carbon dioxide, foam, or dry powder.
Flammability	The product is non-flammable, but combustible, thus keep away from sources of flame and high temperature, such as welding torch, electric and gas heaters.
Fire and Explosion	<p>Evacuate area and contact emergency services.</p> <p>May evolve toxic gases (carbon dioxide, carbon monoxide and hydrocarbons). Avoid dense smoke and do not inhale the smoke gases from combustion. Remain upwind and notify those downwind of hazard.</p> <p>Firemen have to wear self-contained breathing apparatus (respirators/oxygen masks) in enclosed areas. Use safety glasses and protect skin/body with protective clothing.</p>

7. HANDLING AND STORAGE

Storage	Store inside in cool, dry, well ventilated area away from direct sunlight. Keep in original packing until required. Do not expose to any source of flame, ignition or heat. Avoid excessive compression during transportation and storage.
Handling	<p>Do not lift heavy rolls and use mechanical lifting equipments when required. The working environment should be kept clean and free of dust.</p> <p>Fabrication areas should be well ventilated to take away fumes, vapours and dust, especially in processes, e.g. lamination (heat and coating), welding, vacuum forming, hot press moulding; operators should be assured of a supply of fresh air.</p>

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	<p>No special precautions are required unless product is heated and vapours evolve.</p> <p>Where heating is involved, local exhaust ventilation is recommended in poorly ventilated areas.</p>
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PPE Hand Protection: Use safety gloves when handling rolls/cutting product with knife. Other than that no other personal protective equipment is required in normal application.

When working in fabrication areas utilizing heat processes; wear gloves, safety glasses (or goggles) and long sleeved clothing to prevent possible thermal injury from molten foam.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Foil faced closed cell foam	Solubility (water)	Insoluble
Colour	No specified	% Volatiles	Not Available
Odour	Odorless	Flash Point	Not Available
Boiling Point	Not Available	Autoignition Temperature	≥ 300°C
Softening range	100 – 130°C	pH Value	Not Available
Vapor Pressure	Not Applicable	Explosion Limits	Not Applicable

10. STABILITY AND REACTIVITY

Reactivity	Incompatible with oxidizing agents (eg. hypochlorites, peroxides), strong acids or alkaline, heat (> 160°C) and ignition sources.
Decomposition	May evolve toxic gases (carbon oxides, hydrocarbons) when heating to decomposition.
Hazardous reactions	No hazardous reactions observed.

11. TOXICOLOGICAL INFORMATION

Toxicologically harmless.	Crosslinked polyolefin foams are among the most inert polymer foams and constitute no hazard in terms of normal handling and skin contact. Normal uses of this product do not cause adverse health effects.
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12. ECOLOGICAL INFORMATION

Environmentally harmless.	Insoluble in water and in most solvents. Free of heavy metals and plasticizers. Degradable only by prolonged UV exposure.
Ozone depleting substances:	The product does not contain and is not produced with any of ozone depleting substances which include Chlorofluorocarbons (CFCs), Hydrochlorofluorocarbons (HCFCs), Carbon Tetrachloride or 1,1,1-Trichloroethane, Methyl Bromide and Hydrobromofluorocarbons (HBFCs).

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Can be recycled or reused. No special precautions are required for this product.
Legislation	Small amounts to be disposed together with domestic waste. When disposing of any waste, observe all applicable national and local regulations. The products may be disposed of by either Landfill or Incineration.
Landfill	The product, (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.

Incineration Incinerate using properly controlled municipal or industrial incineration systems. The thermoplastic materials have high heat values and should only be incinerated in units designed to handle high combustion heat.

14. TRANSPORT INFORMATION

Not classified as Dangerous Good - No restrictions and non-hazardous material in relation to the transportation regulations.

UN No. Not allocated

Hazchem Code Not allocated

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Available Products Usage

Additional products usage may be obtained by calling your Sales or Customer Service contact.

This information is based on our present knowledge. This shall not constitute a guarantee for any specific product featured and shall not establish a legally valid contractual relationship.

Important

This material is not intended for use in products for which prolonged contact with mucous membranes, body fluids or abraded skin, or implantation with the human body, is specifically intended, unless the finished product has been tested in accordance with nationally and internationally applicable safety testing requirements. Because of the wide range of such potential uses, Simco International is not able to recommend this material as safe and effective for such uses and assumes no liability for such uses.