



Safety Data Sheet

ThermaSmart PRO

Ver. 4/2016

1 Identification of

- | | |
|-----------------------------------|---|
| 1.1 Product | ThermaSmart PRO |
| 1.2 Company | Production plant PL Thermaflex Izolacji sp. z o.o. 58-130 Żarów ul. Przemysłowa 6 Poland tel. +48 74 85-89-666 fax. +48 74 85-89-667 Safety responsible: Jakub Sobieszek |
| 1.3 Emergency phone number | Do call ThermoFlex Izolacji Sp. z o.o. +48 661 111 131 Tomasz Dużak |



2 Hazards identification

ThermaSmart PRO foam will burn when provided with an adequate amount of heat and oxygen; therefore do not expose the material to any flame or other source of ignition or heat. ThermaSmart PRO-formulations will basically prevent the foam from burning; it will show improved fire retardant properties in terms of reduction of fire ignition and fire spread in well defined burn tests.

Subject to reasonable care and cleanliness there are no obvious problems associated with the handling of polyolefin foams. When using do not eat, drink or smoke. Wash hands before breaks and at the end of work.

Foam containing flame retardant includes antimony trioxide. This component is subject to CLP regulation:

| Name | Product identifier | % | % Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------|---|--------|---|
| antimony trioxide | (EC no) 215-175-0, (REACH-no) 01-2119475613-35 | 4 - 10 | Carc. 2, H351 |

Full text of H- and EUH-phrases: see section 16

3 Composition/ information on ingredients

ThermaSmart PRO is a thermoplastic polyolefin foam containing flame retardant additives and is produced in a continuous extrusion process. ThermaSmart PRO is based on polyolefin polymers and physically foamed with an organic foaming agent. The foaming agent is known as non depleting substance to the ozone layer.

4 First aid measures

After contact to skin or eyes: No special measures. See 11 Toxicological information

In case of fire: if smoke gases are inhaled, which contain mainly carbon dioxide (CO₂) and carbon monoxide (CO): fresh air, coffee and possibly artificial respiration (call immediately a doctor) are the recommended measures. If headache, nausea or vomiting occur, contact a doctor.



If body skin is burned through contact with molten foam: cool burned parts with water, but do not remove the foam from the skin. If skin burn grad 2 or 3 is reached: call immediately a doctor.

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| 5 | Firefighting measures | <p>Fire extinguishing mediums are: Water spray, extinguishing foam, CO₂-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 against molten ThermaSmart PRO.</p> |
| 6 | Accidental release measures | Not applicable |
| 7 | Handling and storage | |
| 7.1 | Handling | <p>Practice reasonable care as a normal safety precaution. Fabrication areas should be well ventilated to carry away fumes, vapours and dust. Operatives should be assured of a supply of fresh air. The working environment should be kept clean and free of dust.</p> |
| 7.2 | Storage | <p>Practice reasonable care and cleanliness; provide adequate distance between stacks as a safety precaution. Do not expose to any source of flame, ignition or heat. Recommended storage is inside due to UV light and heat sensitivity.</p> |
| 8 | Exposure controls/ personal protection | <p>Breathing protection: Use special personal breathing respirator/mask or filter, in special fabrication areas (see 7.1 Handling) that are not well ventilated, in order to protect from fumes, vapours and dust.</p> |

**Hand protection:**

Wear gloves (cotton, wool or leather), when working in fabrication areas utilizing heat processes, to prevent from possible thermal injury from hot foam.

Eye protection:

Use goggles or face masks, when working in fabrication areas utilizing heat processes, to prevent possible contact with hot foam and thermal injury.

Body protection:

Wear clothes and shoes, to protect the full body skin, especially when working in fabrication areas utilizing heat processes, to prevent possible thermal injury (burns).

9 Physical and chemical properties

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|------------------------|--|
| Appearance: | Grey metallic, flexible closed cell, foam web, available in a wide variety of types. |
| Odour: | odourless |
| Softening range: | >75 °C |
| Autoflammability: | >300 °C |
| Thermal decomposition: | >160 °C |
| Explosive properties: | none |
| Apparent density: | 18-26 kg/m ³ |
| Sollubility in: | water: insoluble organic solv.: insoluble, partly soluble, swelling; depending on solvent type. |

10 Stability and reactivity

Avoid any temperature >160 °C over a period >10 min.
 Avoid any contact with strong oxidizing chemicals.

Dangerous decomposition products: decomposition gases/vapours in heat fabrication processes, combustion gases in case of fire.



- 11 Toxicological information** Toxicologically harmless.
Polyolefin foams are among the most inert polymer foams and constitute no hazards in terms of normal handling and skin contact.
- 12 Ecological information** Environmentally harmless:
- insoluble in water: no contamination
- insoluble in most solvents
- degradable only by UV light
ThermaSmart PRO is produced (H)CFC free.
- 13 Disposal considerations**
Recycling: 100% recyclable to be used in own products.
Disposal: When disposing of any wastes, observe all applicable national and local regulations.
- 14 Transport information** No restriction and no dangerous material in relation to transportation regulations according to regulations ADR/RID, IMO and IATA
- 15 Regulatory information** Regulation (EC) No 1907/2006 (REACH)
Annex XIV: List of substances subject to authorization – none of the ingredients are listed

Chemical Safety Assessment isn't available
- 16 Other information**

Full text of H- and EUH-phrases:

| | |
|---------|-----------------------------|
| Carc. 2 | Carcinogenicity, Category 2 |
| H351 | Suspected of causing cancer |

For additional product information contact Thermaflex Izolacji Sp. z o.o.