

MATERIAL SAFETY DATA SHEET

Softlon® (sold as EZY- Lay underlay)

Introduction

This Safety Data Sheet contains the following information and advice.

Contents

1. Identification of:
 - 1.1 Product
 - 1.2 Company
2. Product description
3. Hazards identification
4. First aid measures
5. Fire fighting measures
6. Accidental release measures
7. Handling and Storage
8. Exposure controls / Personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Recycling & disposal considerations
14. Transport information
15. Regulatory information
16. Other information

1. Identification of:

- 1.1 Product** Softlon®
- 1.2 Company** Headquarters & Production Plant
Sekisui Pilon Pty Ltd
1-5 Parraweena Road
Taren Point NSW 2229
Sydney Australia
- Ph: (61)-2-9525 9880
Fax: (61)-2-9525 8004

2. Product Description

Softlon® is physically cross-linked polyolefin foam produced in a continuous web process. Softlon® is based on PE and PP homo and copolymers and foamed with an organic foaming agent by chemical decomposition. The two following gases are mainly produced:

- Nitrogen (N₂)
- Carbon dioxide (CO₂)

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

3. Hazards Identification

Polyolefin 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. 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 or eyes: - No special measures.

In case of fire: - If smoke gases are inhaled, which contain mainly carbon dioxide (CO₂) and carbon monoxide (CO): - Fresh air, coffee and possible artificial respiration (call a doctor immediately) are the recommended measures.

If headache, nausea or vomiting occurs, 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 grade 2 or 3 is reached: call a doctor immediately.

5. Fire Fighting Measures

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:

- a) Carbon dioxide
- b) Carbon monoxide
- c) Water vapour
- a. + b. + c.: 95-97%
- d) Ethine (C₂H₂) 2-4%
- e) Ethene (C₂H₄) <1%
- f) Ammonia <1%

Use safety glasses and protect skin/body with protective clothing against molten Softlon®.

6. Accidental Release Measures

Not applicable.

7. Handling and Storage

Handling:

Practice reasonable care as a normal safety precaution. Fabrication areas should be well ventilated to carry 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. The working environment should be kept clean and free of dust.

Storage:

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.

8. Exposure controls/Personal Protection

Breathing protection:

In special fabrication areas, that are not well ventilated, use special personal breathing respirator/mask or filter, in order to protect from fumes, vapours and dust.

Hand protection:

When working in fabrication areas utilising heat processes, wear gloves (cotton wool or leather), to prevent possible thermal injury from hot foam.

Eye protection:

When working in fabrication areas utilising heat processes, use goggles or face masks, to prevent possible contact with hot foam and thermal injury.

Body protection:

When working in fabrication areas utilising heat processes, wear clothes and shoes, to protect the full body skin, to prevent possible thermal injury (burns).

9. **Physical and Chemical Properties**

Appearance:

Semi rigid closed cell, physically cross-linked polyolefin foam web, available in a wide variety of colours.

Odour:	odourless
Softening range:	≥70 - 130oC
Auto flammability:	≥300oC
Thermal decomposition:	>160 - 180oC
Explosive properties:	none
Apparent density:	25 - 250kg/m ³
Solubility in water:	insoluble
Organic solvents:	insoluble, partly soluble, swelling; depending on solvent type
Other properties: Electrical surface resistance:	≥10 ¹² Ω/square

10. **Stability and Reactivity**

Avoid:

Any temperature (over period >10min.) >160 -180Co

Any contact with strong oxidising chemicals

11. **Toxicological Information**

Toxicologically harmless:

Physically cross-linked polyolefin foams are among the most inert polymer foams and constitute no hazard 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 prolonged UV exposure

Ozone layer depleting substances:

Softlon[®] 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 EEC Council Regulations 594/91, 3952/92, 93/C232/07: CFC's, HCFC's halons, carbon tetrachloride, 1,1,1-trichloroethane, methyl bromide, hydrobromofluorocarbons.

13. **Recycling & Disposal Considerations**

Re-use:

Remnant material may be reused directly eg:

- 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.

Softlon® polyolefin foam may be disposed of by:

- a) **Landfill:**
Softlon® 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.
- b) **Incineration:**
Incineration with properly controlled municipal or industrial incineration systems. Plastic materials, such as Softlon®, have high heat values and should only be incinerated in units designed to handle high combustion heat.

14. Transport information

No restrictions and a non dangerous 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

If you require more information on the subject of this data sheet, please contact your local agent or contact:

Sekisui Pilon Pty Ltd

Ph: (02) 9525 9880

Fax: (02) 9525 8004



This information on Sekisui Pilon foams is presented to the best of our knowledge. All product data is based on average values and is for guidance only. Sekisui Pilon maintains an ISO 9002 approved quality system. No CFC's are used as foaming agent. The foam is free of heavy metals and plasticisers.

Recommendations as to methods of post fabrication, application and use of Sekisui Pilon foams are based on our experience and knowledge of the characteristics of our products and are given in good faith. As producer of the material we have no control over the application of Sekisui Pilon foams and no legal responsibility is accepted for such recommendations. In particular, no responsibility is accepted by us for any system in which Sekisui Pilon foams are utilised nor for any application. Softlon - Registered trademark of Sekisui Pilon

All information contained in the Data Sheet is as accurate and up to date as possible. Since Sekisui Pilon cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. Sekisui Pilon will not be responsible for damages of any nature resulting from the use of or reliance upon the information. No expressed or implied warranties are given other than those implied mandatorily by Commonwealth, State or Territory legislation.