Thermoplan-T- roof lining material

Safety Datasheet

THERMOPLAST GmbH

EC Safety Datasheet (91/155/EEC)

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Thermoplan-T Roof lining material

1. Particulars of the substance, preparation and company

1.1 Product details
Trade name : Thermoplan-T FPO roof lining material

1.2 Details of the manufacturer / supplier

Manufacturer/supplier	:	Thermoplast Bernsdorf GmbH
Street	:	Dresdener Straße 80
Postal town and postcode	:	D-02994 Bernsdorf
Telephone	:	03 57 23/2 45-0
Fax	:	03 57 23/2 45-10
Information	:	03 57 23/2 45-14
Emergency information	:	03 57 23/2 45-14

2. Composition / Particulars of ingredients

2.1 Characterisation:
Flexible polyolefin compound (FPO) surface-lining material containing additives and fillers, with polyester fibre reinforcement.

2.2

Content	Components
70 – 80 Ma%	Propylene ethylene copolymer
20 – 30 Ma%	Additives (heat stabiliser and flame-proofing agent)
up to 5 Ma%	Filler

3. Potential hazards

3.1 Hazards to human health:
When used in the prescribed manner, the product is non-irritant and does not release harmful vapours.

3.2 Safety risks:
A static charge tends to build up whilst the product is being handled.
The product is flammable. In a molten state, the product sticks to the skin and causes burns.
Organic decomposition products are released under thermal load conditions and these can irritate the respiratory organs and the eyes (see section 10.1).

3.3 Environmental hazards: none

4. First Aid

4.1 General notes:
No special action is required where the product is used in the prescribed manner.

If the product decomposes due to heat or if it catches fire, avoid inhaling combustion gases or breakdown products.
The following information applies solely to such an event.

4.2 Inhalation:
Rest, fresh air and, if necessary, mouth-to-mouth resuscitation and medical attention

4.3 Contact with skin:
If molten product comes into contact with the skin, cool the affected area down promptly with copious amounts of cold water. If the skin comes into contact with fire residue, wash off with warm soapy water.

4.4 Contact with eyes:
Hold the eyelids open and immediately irrigate the eyes with copious amounts of water. Seek ophthalmological assistance!

4.5 If the product is swallowed:
Flush the mouth out immediately, then give the victim plenty of water to drink. Induce vomiting and summon medical assistance.

4.6 Notes for physicians:
Treat symptomatically. Take prophylactic action to deal with possible pulmonary oedema.

5. Action to be taken in the event of fire

5.1 Appropriate extinguishing methods:
Water spray jet, foam, CO_2, dry extinguishing agents.

5.2 Extinguishing methods unsuitable for safety reasons: not applicable.

5.3 Particular hazards created by the substance or preparation itself, by combustion products or by any gases that are generated:
Combustion gases, particularly in the case of a smouldering fire, contain carbon monoxide and organic breakdown products that can irritate the respiratory organs and the eyes (see 10.1).

5.4 Special protection:
Breathing apparatus must be worn. Use a type A gas filter for respiratory protection.

5.5 Further details:
Molten product may cause the fire to spread. Calorific value 8,000 – 11,000kcal/kg.

6. Action to be taken in the event of an accidental escape

6.1 Personal precautions: not applicable

6.2 Environmental protection: not applicable

6.3 Cleaning/mopping up procedure:
Prevent fire residue from entering the soil or finding its way into the water supply. Residue needs to be treated as special waste product.

7. Handling and storage

7.1 Handling
No special protection is necessary. Manual handling mechanical or team systems should be Implemented wherever reasonably possible.
Ensure that there is good ventilation if the product overheats.
Fire and explosion protection:
Follow the usual fire-protection rules. No smoking. No naked lights.

7.2 Storage
Storage area and container requirements:
No special requirements. Protect from fire.
Storage with other products: The product is not to be kept with other products that promote the spread of fire.
Additional information regarding storage conditions: none.

8. Exposure limits and personal protection

8.1 Additional instructions regarding the layout of engineering plant:
Ensure that any site at which the product is being handled at high temperatures is well ventilated.

8.2 Ingredients with threshold levels that need to be monitored in the workplace:
Work involving heat-generating processes:

Formaldehyde	Tech. standard conc.	0.6	mg/m³
Acetaldehyde	MWC	0.25	mg/m³
Formic acid	MWC	9	mg/m³
Acetic acid	MWC	25	mg/m³

Where the product is used in the prescribed manner, concentrations fall well below the permitted thresholds, even when exposed to high temperatures for short periods.

8.3 Personal protection:
General protection and hygiene:
No special action required. If the product is exposed to heat, avoid inhaling vapours.

Respiratory protection	: -
Hand protection	: -
Eye protection	: -
Body protection	: -

9. Physical and chemical properties

9.1 Appearance

Form	solid, flexible
Colour	various
Smell	odourless

9.2 Safety data

Melting temperature range		135 ... 164	°C
Boiling point		'n.b.'	°C
Flash point		not used	°C
Ignition temperature		> 400	°C
Tendency to spontaneous ignition		not applicable	
Explosion hazard		not applicable	
Explosion thresholds:		not used	
Vapour pressure:	(20°C)	0	mbar
Density:	(20°C)	0.89...0.91	g/cm³
Solubility in water:	(20°C)	not water-soluble	
pH	(aqueous solution)	neutral	
Viscosity:	(20°C)	not used	
Distribution coefficient		not used	log Po/w

[Translator's note : the standard translation for 'n.b.' does not appear to fit this context; it *may*, however, simply be a mistyping of 'n.a· = 'not used']

9.3 Further particulars:
Max. temp. for continuous use : 70°C
Soluble in boiling aromatic chlorinated solvents.

10. Stability and reactivity

10.1 Thermal decomposition/conditions that need to be avoided:
The product is stable under normal handling and storage conditions.
Under thermal stress conditions, following an induction period of approx. 30 mins. at approx. 200°C, substantial quantities of organic breakdown products (mainly aldehydes: formaldehyde, acetaldehyde; acids: formic acid, acetic acid; hydrocarbons: ethylene, propylene) are released at > 320°C. Oxidants encour age these reactions.

10.2 Hazardous reactions:
None.

10.3 Hazardous breakdown products:
Below the constant use temperature: none.

11. Toxicology data

11.0 General:
According to the information at our disposal, where the product is handled properly and used in the prescribed manner, it does not have any harmful effect upon health.

11.1 LD_{50}/LC_{50} values that have a bearing on classification:
Oral LD_{50} (rat) : >2000mg/kg

11.2 Primary irritation:
On the skin non-irritant.
In the eye non-irritant.
In respiratory organs non-irritant.

12. Ecology information

12.1 Elimination (persistence and potential for decomposition):
Non-biodegradable.

12.2 Behaviour in environmental compartments:
Insoluble in water. Additives immobilised in the plastic matrix.

12.3 Ecotoxic effects:
No known harmful effects.

12.4 Additional ecological information:
None.

12.5 General notes:
Water hazard class : not hazardous to water (in-house classification)

13. Disposal

13.1 Product/Recommendation:
May be sent for disposal with household waste. Comply with local authority regulations.

13.2 EWC Code(s): 57 116 (Comply with local authority regulations)

13.3 Packaging that has not been cleansed : not applicable

13.4 Recommended cleansing agent(s):
Water, with added cleansing agents, if necessary.

14. Transport arrangements

14.1 ADR/RID and GGVS/GGVE land transport (international/domestic):
ADR/RID-GGVS/E-category : not classified as hazardous goods
Description of the goods : polyolefin preparation

14.2 Carriage by inland waterway : not classified as hazardous goods
Description of the goods : polyolefin preparation

14.3 Carriage by sea IMDG/GGVSee:
IMDG/GGVSee Cat. : not classified as hazardous goods
Correct technical name : polyolefin preparation

14.4 Carriage by air ICAO-TI and IATA-DGR:

ICAO/IATA cat. : not classified as hazardous goods

Correct technical name : polyolefin preparation

15. Regulations

15.1 Identification in accordance with EC Directives:

Symbol -

EU/R -

EU/S -

	CAS No.	EEC No.	Index No.	UN. No.
polypropylene ethylene copolymer	9010-79-1			

15.2 National regulations

Flammable Liquids Order (German) Cat. : -

Gefahrstoffverordnung : -
(Hazardous Substances Order)

Störfallverordnung : -
(an Order governing accidental spillage)

TA-Luft (instructions for carriage by air) : -

15.3 Other regulations

TRGS -

BG-Chemie leaflets: -

16. Other details

The foregoing information reflects the status of our current knowledge and is intended to provide information relating to safety requirements in respect of our product.
This information does not provide any guarantee, in legal terms, with regard to product characteristics.
Responsibility for compliance with statutory provisions remains with the individual concerned.
Subject to amendment.