

ThermaMark R117 Preformed Thermoplastic



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name	ThermaMark R117 Preformed Thermoplastic
Product Inclusion	This document covers all colour variants of the ThermaMark R117 Preformed Thermoplastic range of products
Container	NA

1.2. Relevant identified uses of the substance of mixture and uses advised against

Identified Uses	No specific uses for are identified.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northarbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 mail@meonuk.com
-----------------	---

1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922
----------------------------	----------------------

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

H317 Skin Sens. 1

Full text of H-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

No additional information available.

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008, (CLP)

Hazard pictograms (CLP)



Signal word	Warning
Hazardous ingredients	Resin acids and Rosin acids, fumarated, esters with pentaerythritol
Hazard statements (CLP)	H317 - May cause an allergic skin reaction.

ThermaMark R117 Preformed Thermoplastic

Precautionary statements (CLP)

P261 - Avoid breathing dust.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Results of PBT and vPvB assessment:

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable.

3.2 Mixture

Name	Product identifier EC No. REACH No.	%	Classification
Resin acids and Rosin acids, fumarated, esters with pentaerythritol	305-514-1 01-2119485895-17-XXXX7-XXXX	5 - 15	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 4, H413

SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

4.1. Description of first aid measures

General	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation	Remove to fresh air and call a doctor.
Skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Wash with plenty of soap and water. Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms of chronic exposure	May cause an allergic skin reaction.
-------------------------------------	--------------------------------------

ThermaMark R117 Preformed Thermoplastic

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry Chemical, CO2, Foam
Extinguishing media which must not be used for safety reasons	Not specified.

5.2. Special hazards arising from the substance or mixture

None.

5.3. Advice for firefighters

Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection. protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Emergency procedures	Evacuate unnecessary personnel.
Protective equipment	Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.
-------------------------	--

6.4. Reference to other sections

See section 8.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust.

Hygiene measures

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Keep only in the original container in a cool, well ventilated place away from: Heat and ignition sources. Keep container closed when not in use.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.

ThermaMark R117 Preformed Thermoplastic

7.3. Specific end uses

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

None.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate local exhaust ventilation.

Personal protective equipment

Protective goggles. Gloves. Avoid all unnecessary exposure.

Hand protection

Wear protective gloves.

Eye protection

Wear chemical goggles or safety glasses.

Respiratory protection

Wear exposure through inhalation may occur from use, respiratory protection equipment is recommended.



Other information

Do not eat, drink or smoke during use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Solid thermoplastic sheet
Colour	Various (usually white or yellow but can be other colours)
Odour	characteristic.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	100 °C
Freezing point	No data available
Boiling point	No data available
Flash point	> 230 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density (bulk)	Relative density (bulk) : 1.9 – 2.1 g cm ⁻³
Solubility	Insoluble
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits : No data available	No data available

9.2. Other information

ThermaMark R117 Preformed Thermoplastic

No other additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Avoid direct sunlight and extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified.

Titanium(IV) oxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value; > 5000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	> 6,8 mg/l/4h (Rat; Experimental value)

Skin corrosion/irritation Not classified.
Based on available data, the classification criteria are not met

Serious eye damage/irritation Not classified.
Based on available data, the classification criteria are not met

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Not classified.
Based on available data, the classification criteria are not met

Carcinogenicity Not classified.
Based on available data, the classification criteria are not met

Reproductive toxicity Not classified.
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) Not classified.
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated Exposure) Not classified.

ThermaMark R117 Preformed Thermoplastic

Aspiration hazard Not classified.

Potential adverse human health effects and symptoms Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Titanium(IV) oxide (13463-67-7)	
LD50 FISH 1	> 1000 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	< 1000 mg/l (432 h; Daphnia magna; Static system)
LC50 fish 2	> 1 g/l (96 h; Leuciscus idus)
EC50 Daphnia 2	< 500 mg/l (720 h; Daphnia magna; Static system)
Threshold limit algae 1	61 mg/l (72 h; Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

Titanium(IV) oxide (13463-67-7)	
Persistence and degradability	Biodegradability: Not applicable. Low potential for mobility and soil
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

Titanium(IV) oxide (13463-67-7)	
Bioaccumulative potential	Not Bioaccumulative

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Dispose of contents/container to a licensed waste centre in accordance with local/regional/national/international regulations.

Ecology - waste materials: Avoid release to the environment.

European List of Waste (LoW) code: 20 01 27* - paint, inks, adhesives and resins containing dangerous substances.

ThermaMark R117 Preformed Thermoplastic

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

14.1 UN number

Not dangerous goods in terms of transport regulations

14.2 UN proper shipping name

Shipping Name: (ADR)	Not applicable.
(IMDG)	Not applicable.
(IATA)	Not applicable.
(ADN)	Not applicable.
(RID)	Not applicable.

14.3 Transport hazard class(es)

Hazard classes: (ADR)	Not applicable.
(IMDG)	Not applicable.
(IATA)	Not applicable.
(ADN)	Not applicable.
(RID)	Not applicable.

14.4 Packing group

(ADR)	Not applicable.
(IMDG)	Not applicable.
(IATA)	Not applicable.
(ADN)	Not applicable.
(RID)	Not applicable.

14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No additional information available.

14.6 Special precautions for user

14.6.1 Overland transport

14.6.2 Transport by sea

14.6.3 Air transport

14.6.4 Inland waterway transport

Carriage prohibited (ADN)	No
Not subject to ADN	No

14.6.5 Rail transport

Carriage prohibited (RID)	No
---------------------------	----

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code.

Not applicable.

ThermaMark R117 Preformed Thermoplastic

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	HiFlex Road Markings - Resin acids and Rosin acids, fumarated, esters with pentaerythritol - Silicon dioxide
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Resin acids and Rosin acids, fumarated, esters with pentaerythritol.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2 National regulations

Germany

Water hazard class (WGK):

3 - severe hazard to waters

WGK remark:

Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

SECTION 16: Other information

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

Full text of H- and EUH-phrases:

Aquatic Chronic 4 Hazardous to the aquatic environment — Chronic Hazard, Category 4

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

Skin Sens. 1 Sensitisation — Skin, category 1

STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.