

Safety Data Sheet

Thormaseal Tropical A

Prismo Road Markings Limited
(Trading as Ennis-Flint)
5 Drumhead Road
Chorley North Industrial Park
Chorley, Lancashire
PR6 7BX, United Kingdom



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

- 1.1 Product Identifier:** HSBBCA00
Product Name: Thormaseal Tropical A
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Supplied for use as a professional use surface dressing for application to road surfaces.
- 1.3 Details of the supplier of the substance of mixture**
- Suppliers name:
Prismo Road Markings Limited (Trading as Ennis-Flint)
5 Drumhead Road,
Chorley North Industrial Estate,
Chorley, Lancashire,
PR6 7BX
United Kingdom

Telephone Number: +44 (0) 1257 225 100
Fax Number: +44 (0) 1257 224 606
Email Address: info@ennisflint.com
- 1.4 Emergency Telephone Number:**
+44 (0) 1257 225 100
Only available office hours Monday – Friday 0830 to 1700 (English language)

SECTION 2: Hazards Identification

- 2.1 Classification of substance or mixture**
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**
Skin Sensitizer 1A; H317 May cause an allergic skin reaction.
- 2.2 Label Elements according to Regulation (EC) No 1272/2008 [CLP]**
(Contains: Fatty acids C18 unsat, reaction products with Pentaethylenehexamine CAS No. 68910-93-0)



Signal word: WARNING

Hazard Statements:
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:
P261 Avoid breathing dust.
P280 Wear 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 in accordance with local/national regulation




- 2.3 Other hazards**
This mixture does not contain any substances that are assessed to be PBT or vPvB.

The product may give potential for generation of respirable dust during handling and use.
Dust may contain respirable crystalline silica. Prolonged and or high inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of lung fibrosis are cough and breathlessness. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

SECTION 3: Composition/information on ingredients

3.1 Product Code HSBBCA00
 3.2 Mixtures

3.3 Hazardous ingredients

Chemical Name	CAS-No./EINECS-No.	Annex Index or REACH number	Pictogram(s) according to 1272/2008:	H-Phrases according to 1272/2008:	Concentrations [%]
Asphalt petroleum fumes	8052-42-4/232-490-9	Index number: - REACH Registration number: 012119480172-44	Not classified Substance with Workplace Exposure Limit	-	≤ 45.0
Calcium carbonate	1317-65-3	Index number: - REACH Registration number: -	Not classified Substance with Workplace Exposure Limit	-	≤ 25.0
Silica, respirable crystalline	-	Index number: - REACH Registration number: -	Not classified Substance with Workplace Exposure Limit	-	< 25.0
Fatty acids C18 unsat, reaction products with Pentaethylenehexamine	68910-93-0/ 272-756-1	Index number: - REACH Registration number: 01-2119492546-27	According to 1272/2008: GHS05  GHS07  GHS09 	Skin Corr. 1C H314 Skin sens. 1A H317 Acute aquatic tox. 1 H400 (M=10) Long-term aquatic tox. hazard 1 H410	≤ 0.2

The full hazard information for individual components if not displayed in Section 2 or 3 are displayed in Section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General advice**

Immediate medical attention is required if in contact with hot product. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.

Inhalation

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
 Get medical attention immediately. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Wash skin immediately with soap and water. Get medical attention if irritation develops and persists. If contact with hot product, cool the burn area by flushing with large amounts of water. Do not attempt to remove anything from the burn area or apply burn creams or ointments. Cover the burn area loosely with a sterile dressing, if available. Transport to the nearest medical facility for additional treatment. All burns should receive medical attention. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

Cold product - Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Protect unharmed eye. Continue to rinse and get medical attention immediately. Continue to rinse during transport. If eye irritation persists, consult a specialist.
Hot product - If contact with hot product, cool the burn area by flushing with large amounts of water. Do not attempt to remove anything from the burn area or apply burn creams or ointments. Cover the burn area loosely with a sterile dressing, if available. Transport to the nearest medical facility for additional treatment. All burns should receive medical attention.

4.2 Most important symptoms and effects, both acute and delayed**Over-exposure signs/symptoms****Inhalation**

No specific information.

Ingestion

No specific information.

Skin

Contact with hot product may cause burns. Product contains a skin sensitising substance. Prolonged or repeated exposure may cause skin sensitisation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Adverse symptoms may include the following: irritation, redness.

Eyes

Contact with hot product may cause burns and severe damage to eyes. Product and dust may cause irritation to eyes.

See SECTION 11 for more detailed information on health effects and symptoms.

4.3 Indications of any immediate medical attention and special treatment needed**Notes to physician**

No specific treatment. Treat symptomatically. If removal of solidified product from skin is attempted, mineral oil (not mineral spirits) or a mineral oil based ointment may be applied to help soften the product to facilitate removal.

Protection of first aid personnel

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable**

Use water spray, fog or foam, carbon dioxide. Use an extinguishing agent suitable for the surrounding fire

Not suitable

Do not use water jet.

5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase may occur. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

In combustion may emit toxic fumes.

5.3 Advice for firefighters**Special precautions for fire-fighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Hot product should be handled so that there is no risk of burns. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8). Avoid breathing vapour or mist.

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up**Small spill:**

Eliminate all ignition sources. Move containers from spill area. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill:

Eliminate all ignition sources. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

Note: see SECTION 1 for emergency contact information, SECTION 8 for personal protection and SECTION 13 for waste disposal

SECTION 7: Handling and Storage**7.1 Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid generation and breathing of dusts. Hot product should be handled so that there is no risk of burns.

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.

Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust, vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Supplied for use as a professional use surface dressing for application to road surfaces.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Workplace exposure Limits as defined by UK HSE in document EH40/2005 where available:

Substance	CAS number	Workplace Exposure Limit				Comments
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		
		ppm	mg.m ⁻³	ppm	mg.m ⁻³	
Asphalt, petroleum fumes	8052-42-4	-	5	-	10	The Carc, Sen and Sk notations ate not exhaustive. Notations have been applied to the substances identified in IOELV Directives
Calcium carbonate inhalable dust respirable	1317-65-3	-	10	-	-	-
		-	4	-	-	
Silica, respirable crystalline		-	0.1	-	-	-

Fatty acids C18 unsat, reaction products with Pentaethylenehexamine:

DNELs:

Type	Route	Value	Form
Workers	Skin Contact	4.2 mg/Kg bw/day	Long term systemic effects
Workers	Inhalation	29 mg/m ³	Long term systemic effects

PNECs:

Route	Value
Fresh Water	0.0307 mg/l
Fresh Water Sediment	119.8 mg/Kg dry weight
Soil	9.44 mg/Kg dry weight
Sewage treatment plant	2.3 mg/l
Marine Sediment	11.98 mg/Kg dry weight
Marine Water	0.003 mg/l

8.2

Exposure controls**General**

Avoid contact with skin, eyes and clothing. Hot product should be handled so that there is no risk of burns.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure that there is sufficient ventilation of the area.

Eye and face protection

Wear tightly fitting safety goggles and Face shield that meet EN 166 a/o ANSI Z87.1 standards

Skin Protection

When handling heated product wear heat resistant gloves.

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact. Always seek advice from glove suppliers. Select gloves approved to EU standard EN407.

Wear impermeable protective clothing, butyl rubber apron and boots.

For normal operations with hot material wear heat resistant coveralls, (with cuffs over gloves and legs over boots), and heavy-duty boots, e.g. leather for heat resistance. The use of a neck apron is recommended.

Inhalation

Provide a good standard of general ventilation. Use outdoors or ensure not less than 3 to 5 air changes per hour. In case of dust wear respiratory protective device with dust filter. Applicable standards for continuous wear time of less than 2 hour are BS EN 140 mask and BS EN 143 Filter; BS EN 1827.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Physical State	Solid block
Colour	Black
Odour	Characteristic, bituminous
Odour threshold	No data
pH	Not applicable
Melting point	No data
Initial boiling point and boiling point range	No data
Flash Point	No data
Evaporation rate	No data
Flammability	No data
Explosive limits	Upper: No data Lower: No data
Vapour pressure	No data
Vapour Density	No data
Relative density	1.35 kg/l
Solubility	Insoluble in water
Partition coefficient	n-octanol/water: No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	Not applicable
Explosive properties	No data
Oxidizing properties	No data

9.2

Other information

No other relevant information available

SECTION 10: Stability and Reactivity

- 10.1 Reactivity**
Stable under normal conditions.
- 10.2 Chemical stability**
Stable under normal conditions.
- 10.3 Possibility of hazardous reactions**
Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid**
Avoid strong bases, acids and strong oxidising agents.
- 10.5 Incompatible materials**
Do not allow molten material to contact water or liquids as this can cause violent eruptions, splatter hot material, or ignite flammable material.
- 10.6 Hazardous decomposition products**
In combustion may emit toxic fumes.

SECTION 11: Toxicological Information

- 11.1 Information on toxicological effects**
The mixture has not been assessed for toxicological effects, the mixture classification is given in Section 2 based on individual component contents. Individual component hazards are given in Section 3
- 11.1.1 Acute toxicity**
Not expected to be toxic.
- Skin corrosion/irritation**
Product is not classified as causing skin irritation
- Serious eye damage/irritation**
Product is not classified as causing severe eye irritation or eye damage.
- Respiratory of skin sensitisation**
Product is classified as causing skin sensitisation.
- Germ cell mutagenicity**
No information specified.
- Carcinogenicity**
No information specified.
- Reproductive toxicity**
No information specified.
- STOT-single exposure**
Product is not classified as having Specific Target Organ Toxicity of single exposure.
- STOT-repeated exposure**
No information specified.
- Aspiration hazard**
No information specified.
- Toxicological information on hazardous ingredients where available:**
Fatty acids C18 unsat, reaction products with Pentaethylenehexamine:
- Inhalation**
Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin**
Symptoms may be delayed. May cause an allergic skin reaction. Causes severe skin burns.
- Eyes**
Causes serious eye damage.
- Further Information**
No further information available.

Toxicology Data**Acute oral toxicity**

LD50: > 2,000 – 5,000 mg/kg

Species: Rat

Skin corrosion/irritation

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Sensitisation

Result: May cause sensitisation by skin contact.

Source

AkzoNobel SDS 01.06.2015 Wetfix AP17

SECTION 12: Ecological Information**12.1****Toxicity**

Mixture not classified as harmful to aquatic life.

Toxicity of ingredients where available:

Fatty acids C18 unsat, reaction products with Pentaethylenehexamine:

Toxicity to fish

LC50: > 0.01 – 0.1 mg/l

Exposure time: 96 h

Species: Fish

Read-across (analogy)

Toxicity to daphnia and other aquatic invertebrates
(Chronic toxicity)

NOEC: > 0.01 -0.1 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water Flea)

Toxicity to algae

ErC50: 0.01 – 0.1 mg/l

Exposure time: 72 h

Species Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

M-Factor (Acute)

10

Source

AkzoNobel SDS 01.06.2015 Wetfix AP17

12.2**Persistence and degradability**

Information not available

12.3**Bioaccumulative potential**

No information

12.4**Mobility in soil**

No information

12.5**Results of PBT and vPvB**

This mixture does not contain any substances that are assessed to be PBT or vPvB

12.6**Other adverse effects**

No information

SECTION 13: Disposal considerations**13.1****Waste treatment methods****Methods of disposal**

The generation of waste should be avoided or minimized wherever possible.

Empty containers or liners may retain some product residues.

This material and its container must be disposed of in a safe way.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

SECTION 14: Transport Information

- 14.1 UN number**
Not applicable
- 14.2 UN proper shipping name**
Not applicable
- 14.3 Transport hazard**
Not applicable
- 14.4 Packing group**
Not applicable
- 14.5 Environmental hazards**
Product is not classified as harmful to the environment
- 14.6 Special precautions for user**
No information available
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**
Application for Maritime bulk transport only. Check with carrier.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
This substance is classified and labelled in accordance with regulation 1272/2008 and Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
- 15.2 Chemical Safety Assessment**
CSA not undertaken for this substance

SECTION 16: Other information

- 16.1 Other information**
- Reasons for Revision**
Updated to reflect revised formulation of product: Sections 3, 8, 11, 12.
Annex to the extended Safety Data Sheet (eSDS) removed.

Abbreviations

DNEL	Derived No-Effect Level
LC/LD50	Lethal Concentration/Dose 50%
NOEC	No Observation Effect Concentration
NOAEL	No Observation Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative, Toxic
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
STOT	Specific Target Organ Toxicity
VPvB	very Persistent, very Bioaccumulative

Other Hazard Information assigned to individual ingredients, but not carried to final classification

H314: Causes severe skin burns and eye damage

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

SDS information

This safety data sheet is compiled using data submitted for raw materials and practical experience. This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with regulation 1272/2008 and Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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