



# SAFETY DATA SHEET

## Thermaline XF White

Date: 21<sup>st</sup> September 2020  
Version: 01  
Revision number: n/a  
Supersedes: n/a

According to Regulation (EU) 2015/830

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### 1. Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product Identifier: Thermaline XF White**

**Product code: MTXPAH01**

#### **1.2 Relevant 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 safety data sheet:**

PPG Traffic Solutions (trading as Prismo Road Markings Limited)

5 Drumhead Road

Chorley North Industrial Park

Chorley, Lancashire

PR6 7BX

United Kingdom

Telephone Number: +44 (0) 1257 225 100

Fax Number: +44 (0) 1257 224 606

E-mail Address: [info@ennisflint.com](mailto:info@ennisflint.com)

#### **1.4 Emergency telephone number**

+44 (0) 1257 225 100

Only available office hours Monday – Friday 0830 to 1700 (English language)

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### **2. Hazards Identification**

#### **2.1 Classification of the substance or mixture**

##### **2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

Skin Sensitiser 1

H317 May cause an allergic skin reaction.

##### **2.2 Label Elements according to Regulation (EC) No 1272/2008 [CLP]**

###### **Thermaline XF White**

(Contains: Resin acids and Rosin acids, maleated esters with glycerol CAS 68038-41-5)



Signal word: WARNING

Hazard Statements:

H317 May cause an allergic skin reaction.

Precautionary Statements:

P261 Avoid breathing dust.

P280 Wear protective gloves/eye protection.

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.



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### 2.3 Other hazards


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

## 3. Composition/information on ingredients

### 3.1 Product Code: tba

### 3.2 Mixtures

### 3.3 Hazardous components

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Pictogram(s) according to 1272/2008:	H-phrase(s) according to 1272/2008:	Concentrations [%]
Silica, respirable crystalline	-	Index number: - REACH Registration number: -	None	None  Substance with Workplace Exposure Limit	15.0 – 25.0
Titanium dioxide	13463-67-7/ 236-675-5	Index number: - REACH Registration number: -	None	None  Substance with Workplace Exposure Limit	8.0 – 10.0
Rosin, maleated polymer with glycerol	68038-41-5/ -	Index number: - REACH Registration number: -	GHS07 	Skin Sens. 1 H317 Eye Irrit. 2 H319 Aquatic Chronic 4 H413	7.5 – 8.5

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

## 4.0. 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



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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**

May cause an allergic skin reaction.

#### **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.



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### 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.

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### 5. Fire-Fighting 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.

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### 6. Accidental release measures

#### **6.1 Personal precautions, protective equipment and emergency procedures**

##### **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



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According to Regulation (EU) 2015/830 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.**

## 7. Handling and storage

### 7.1 Precaution 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.

## 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 <sup>-3</sup>	ppm	mg.m <sup>-3</sup>	
Silica, respirable Crystalline (respirable fraction)		-	0.1	-	-	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances identified in IOELV Directives
Titanium dioxide total inhalable respirable	13463-67-7	-	10	-	-	Carc (where generated as a result of a work process)
		-	4	-	-	



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### 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.

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### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: White

Odour: Characteristic

Odour threshold: No data

pH: Not applicable

Melting Point: No data

Initial boiling point and boiling range: No data

Flash point: No data

Evaporation rate: No data

Flammability: No data

Explosion limits

Upper: No data

Lower: No data

Vapour pressure: No data

Vapour density: No data

Density: 2 Kg/l approx.

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



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Oxidising properties: No data

### 9.2 Other Information

No other relevant information available

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### 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.

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### 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**

Acute toxicity:	Not expected to be toxic.
Skin corrosion/irritation:	Product is not classified as causing skin corrosion/irritation.
Serious eye damage/irritation:	Product is not classified as causing severe eye damage/irritation category
Respiratory or skin sensitisation:	Product is classified as causing skin sensitization category 1
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 for single exposure
STOT-repeated exposure:	No information specified.
Aspiration hazard:	No information specified.

#### Toxicological information on hazardous ingredients where available:

##### Rosin, maleated, polymer with glycerol

###### Acute Toxicity

Oral:

LC50 Sprague-Dawley rat > 5000 mg/kg, 15 days. At this dose no death occurred.

###### Subchronic Toxicity

Oral:

NOAEL Wistar rat 300 mg/kg/day, 8 weeks Developmental toxicity; Data is for similar product.

NOEL Wistar rat 1 1000 mg/kg/day, 8 weeks Reproductive; Data is for similar product

###### Skin corrosion/irritation

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

Corrosivity

Rosin, maleated, polymer with glycerol Irritation Corrosion - Skin, No skin irritation.



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Result: negative  
Species: New Zealand white rabbit  
Organ: Skin  
Observation Period: 72 hr

### Serious eye damage/eye irritation

Eye contact

Rosin, maleated, polymer with glycerol

Causes serious eye irritation

Irritation Corrosion - Eye, May cause eye irritation.;  
Data is for similar product.

Result: Positive  
Species: New Zealand white rabbit  
Organ: Eye Test Duration: 4 hr  
Observation Period: 72 hr  
Notes: OECD 405

### Respiratory sensitisation

Not a respiratory sensitizer

### Skin sensitisation

Skin sensitisation

Rosin, maleated, polymer with glycerol

May cause an allergic skin reaction.

50 % w/w Local Lymph Node Assay; Lowest  
Concentration Producing Reaction, SI=4,24; May  
cause sensitization by skin contact.; Data is for  
similar product.  
Result: Positive  
Species: Mouse  
Notes: OECD 429

### Mutagenicity

Rosin, maleated, polymer with glycerol

Germ Cell Mutagenicity: Ames, Data is for similar  
product.

Result: negative  
Species: Salmonella typhimurium  
Notes: OECD 471

Germ Cell Mutagenicity: Chromosome Abberation,  
Data is for similar product.

Result: negative  
Species: Human  
Notes: OECD 473

In Vitro Mammalian Cell Gene Mutation Test, No  
data available to indicate product or any components  
present at greater than 0,1% are mutagenic or  
genotoxic.; Data is for similar product.

Result: negative  
Species: Mouse  
Notes: OECD 476

### Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

### Specific target organ toxicity -single exposure

Not classified.

### Specific target organ toxicity -repeated exposure

Not classified.



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Aspiration hazard

Not an aspiration hazard.

**Source: SDS, Kraton Chemical B.V., 6<sup>th</sup> December 2018**

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12. Ecological Information

**12.1 Toxicity**

**Mixture not classified as harmful to aquatic life.**

**Toxicity of ingredients where available:**

**Rosin, maleated, polymer with glycerol**

**Aquatic**

Algae	EC0	Algae	1000 mg/l, 72 hr Data is for similar product.; OECD 201
Crustacea	EL50	Daphnia	> 100 mg/l, 48 hr OECD 202
	NOEL	Daphnia	100 mg/l, 48 hr OECD 202
Fish	LC0	Danio (Danio)	> 400 mg/l, 96 hr Data is for similar product.; OECD 203

**Source: SDS, Kraton Chemical B.V., 6<sup>th</sup> December 2018**

**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 assessment**

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

**12.6 Other adverse effects**

No information.

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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.

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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.



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**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**

Applicable for Maritime bulk transport only. Check with carrier.

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### 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

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### 16. Other Information

#### Abbreviations:

Aquatic Chronic 4	Aquatic Toxicity Chronic category 4
DNEL	Derived No-Effect Level
Eye Irrit. 2	Eye Irritation category 2
LC/LD50	Lethal Concentration/Dose 50%
NOEC	No Observed Effect Concentration
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative, Toxic
Skin Sens. 1	Skin Sensitivity category 1
vPvB	very Persistent, very Bioaccumulative

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

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H413 May cause long lasting harmful effects to aquatic life.

#### 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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