

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

1.1. Product identifier

Product name: THERMOCOAT S

Product code: 71-100-0503

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

Use of substance / mixture: a solvent borne intumescent coating for steel structures

1.3. Details of the supplier of the safety data sheet

Company name: Thermoguard Ltd

Kirkby Street

Hull

Yorkshire

HU2 0HE

United Kingdom

Tel: 01142 768 008

Fax: 01624 825526

Email: technical@thermoguard.co.uk

1.4. Emergency telephone number

Emergency tel: 01624 825 115

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; Eye Irrit. 2: H319; STOT RE 2: H373; STOT SE 3: H336; -: EUH208

Most important adverse effects: Flammable liquid and vapour. Causes skin irritation. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Contains 12-hydroxyoctadecanamide. May produce an allergic reaction.

2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.

H315: Causes skin irritation.

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

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

SAFETY DATA SHEET

THERMOCOAT S

Page: 2

H336: May cause drowsiness or dizziness.

EUH208: Contains 12-hydro xyoctadecanamide. May produce an allergic reaction.

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

GHS08: Health hazard



Signal words: Warning

Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271: Use only outdoors or in a well-ventilated area.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P260: Do not breathe vapours.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

P362+P364: Take off contaminated clothing and wash it before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314: Get medical advice/attention if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use alcohol resistant foam to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 3

3.2. Mixtures

Hazardous ingredients:

XYLENE - REACH registered number(s): 01-2119488216-32-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
215-535-7	1330-20-7	-	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315	30-50%

PENTAERITHRITOL - REACH registered number(s): 01-2119485947-16-0004

204-104-9	115-77-5	Substance with a Community workplace exposure limit.	-	1-10%
-----------	----------	--	---	-------

KAOLIN

310-194-1	1332-58-7	Substance with a Community workplace exposure limit.	-	1-10%
-----------	-----------	--	---	-------

12-HYDRO XYOCTADECANAMIDE - REACH registered number(s): 01-2119978265-26

204-613-6	123-26-2	-	Skin Sens. 1: H317; Aquatic Chronic 3: H412	<1%
-----------	----------	---	--	-----

Contains: N,N' -ethylenebis(12-hydro xyoctadecanamide) may produce an allergic reaction

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure. Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse health effects Repeated or prolonged contact with the product may cause removal of natural oils and fats from the skin

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 4

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

Immediate / special treatment: Eye bathing equipment should be available on the premises. In all cases of doubt, or when symptoms persist seek medical attention.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Put on protective equipment if outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. If the product enters Drains or Water courses, the local water company should be contacted immediately.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. vapours are heavier than air and may cause explosive mixtures Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Smoking ,eating and drinking should be prohibited in mixing and

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 5

application area Always wash your hands before eating, smoking or using the toilet

Avoid the formation or spread of mists in the air. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Must only be kept in original packaging. keep containers upright and tightly closed keep away from heat, sparks and open flames

7.3. Specific end use(s)

Specific end use(s): the identified uses of this product are detailed in section 1 refer to Application Instructions before using this product

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

XYLENE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	220 mg/m ³	441 mg/m ³	-	-

PENTAERITHRITOL

UK	-	-	4 mg/m ³	20 mg/m ³
----	---	---	---------------------	----------------------

KAOLIN

UK	-	-	2 mg/m ³	-
----	---	---	---------------------	---

DNEL/PNEC Values

THERMOCOAT S

Type	Exposure	Value	Population	Effect
DNEL	Oral	1.6 mg/kg/day	Consumers	Systemic
DNEL	Dermal	125 mg/kg bw/24hr	Consumers	Systemic
DNEL	Dermal	212 mg/kg bw/24hr	Workers	Systemic
DNEL	Inhalation	65.3 mg/m ³	Consumers	Systemic
DNEL	Inhalation	221 mg/m ³	Workers	Systemic
DNEL	Inhalation	289 mg/m ³	Workers	Local
DNEL	Inhalation	65.3 mg/m ³	Consumers	Local

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 6

Hazardous ingredients:

XYLENE

Type	Exposure	Value	Population	Effect
DNEL	Oral	12.5 mg/kg/day	Consumers	Systemic
DNEL	Dermal	1872/mg/kg/day	Consumers	Systemic
DNEL	Inhalation	65.3 mg/m3	Consumers	Systemic
DNEL	Dermal	3182 mg/kg/day	Workers	Systemic
DNEL	Inhalation	221 mg/m3	Workers	Systemic
PNEC	Fresh water	0.327 mg/l	-	-
PNEC	Soil (agricultural)	2.31 mg/kg	-	-

PENTAERITHRITOL

Type	Exposure	Value	Population	Effect
PNEC	Fresh water	1.8 mg/l	-	-
PNEC	Marine water	0.18 mg/l	-	-
PNEC	Soil (agricultural)	0.57 mg/l	-	-
PNEC	Oral (developmental tox)	7300 mg/l	-	-
DNEL	Dermal	31.6 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	21 mg/m3	Workers	Systemic
DNEL	Dermal	6.3 mg/kg bw/day	Consumers	Systemic
DNEL	Inhalation	2.2 mg/m3	Consumers	Systemic
DNEL	Oral	0.63 mg/kg bw day	Consumers	Systemic

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Avoid inhalation of vapours Observe any occupational exposure limits for the product Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: in case of insufficient ventilation suitable respiratory equipment should be used
Respiratory protection must be used if the general level exceeds the recommended occupational exposure limit If spraying respiratory protection will be required Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Gloves (solvent-resistant). the instructions and information provided by the glove manufacturer on use storage maintenance and replacement must be followed

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing. Protective clothing, antistatic.

Environmental: Ensure all engineering measures mentioned in section 7 of SDS are in place. Handle in accordance with good industrial hygiene and safety practices

Section 9: Physical and chemical properties

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 7

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Various

Odour: Characteristic odour

Solubility in water: Not miscible

Viscosity: Viscous

Flash point°C: 25

Relative density: 1.334

9.2. Other information

Other information: Can form an explosive mixture with air

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	3523	mg/kg
DERMAL	RBT	LD50	12,126	mg/kg
VAPOURS	RAT	4H LC50	27.124	mg/l

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 8

Hazardous ingredients:

XYLENE

DERMAL	RBT	LD50	2000	mg/kg
ORAL	RAT	LD50	4300	mg/kg

PENTAERITHRITOL

DUST/MIST	RAT	LD50	22500	mg/kg
ORAL	RAT	LD50	5110	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure. Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse health effects. Repeated or prolonged contact with the product may cause removal of natural oils and fats from the skin.

Other information: In all cases of doubt or where symptoms persist obtain medical attention.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
ALGAE	48H EC50	1.3	mg/l
ALGAE	72H ErC50	2.2	mg/l

Hazardous ingredients:

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 9

XYLENE

ALGAE	48H EC50	7.4	mg/l
DAPHNIA	72H ErC50	10	mg/l
FISH	96H LC50	8	mg/l

PENTAERITHRITOL

DAPHNIA	48H EC50	38900	mg/l
FISH	96H LC50	>3000	mg/l
GREEN ALGA (<i>Selenastrum capricornutum</i>)	96H LC50	>900	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of waste and residues according to local authority requirements Transfer to a suitable container and arrange for collection by specialised disposal company. Do not allow runoff to sewer, waterway or soil

Waste code number: 08 01 11

Disposal of packaging: Drained and rigorously scraped out empty containers are controlled wastes and should be disposed of according with the regulations made under the Control of Pollution Act and Environmental Protection Act

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1263

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 10

14.2. UN proper shipping name

Shipping name: PAINT

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: Always transport in closed containers that are upright and secure Ensure that persons transporting the product know what to do in the event of an accident or spillage

Tunnel code: D/E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: The provisions of the Health and Safety at Work Act and the Control of Substances Hazardous to Health Regulations apply to this product Regulation(EC) N0 1272/2008 of the European parliament and Council on 18 December 2008 on Classification,labelling,packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC,and amending Regulation(EC) No1907/2006

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH208: Contains 12-hydro xyoctadecanamide. May produce an allergic reaction.

H226: Flammable liquid and vapour.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

[cont...]

SAFETY DATA SHEET

THERMOCOAT S

Page: 11

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

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

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Thermoguard H&S Dept