

Thermocoat S

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Thermocoat S

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

Identified Use(s) /Uses advised against Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification Thermoguard Limited
Address of Manufacturer Units B1-B2
Enterprise Park
Wigwam Lane
Hucknall
Nottingham
Postal code NG15 7SZ
Telephone: 01142768008
Fax 01624825526
E-mail sales@thermoguard.co.uk
Office hours 08:00 - 17:00

Supplier

Company Identification Thermoguard Limited
Address of Supplier Units B1-B2
Enterprise Park
Wigwam Lane
Hucknall
Nottingham
Postal code NG15 7SZ
Telephone: 01142768008

E-mail sales@thermoguard.co.uk
Office hours 08:00 - 17:00

1.4 Emergency telephone number

Emergency Phone No. 01142 768008. 07858 518430. 07624 485725.
Contact Technical Department
National response centre
Address NHS Direct
Emergency Phone No. +44 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Thermocoat S

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567
 Flam. Liq. 3 :Flammable liquid and vapour.
 Acute Tox. 4 :Harmful if swallowed.
 Skin Irrit. 2 :Causes skin irritation.
 Eye Irrit. 2 :Causes serious eye irritation.

2.2 Label elements

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567

Product Name Thermocoat S

Hazard Pictogram(s)



GHS02



GHS07

Signal Word(s) Warning

Hazard Statement(s)
 H226: Flammable liquid and vapour.
 H302: Harmful if swallowed.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.

Precautionary Statement(s)
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P370+P378: In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.
 P403+P235: Store in a well-ventilated place. Keep cool.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

| HAZARDOUS INGREDIENT(S) | CAS No. | EC No. / Registration number(s) | %W/W | Hazard Statement(s) | Hazard Pictogram(s) |
|-------------------------|---------|---------------------------------|------|---------------------|---------------------|
| | | | | | |

Thermocoat S

| | | | | | |
|---|------------|-----------|------------|---|-------------------------|
| Polyphosphoric acids, ammonium salts | 68333-79-9 | 269-789-9 | 25 - 50 | Acute Tox. 4 H302 Eye Irrit. 2 H319 | GHS07 |
| Xylene | 1330-20-7 | 215-535-7 | 15-30 | Flam. Liq. 3 H226 Acute Tox. 4 H312 Skin Irrit. 2 H315 Acute Tox. 4 H332 | GHS02 GHS07 |
| ethylbenzene | 100-41-4 | 202-849-4 | < 5 | Flam. Liq. 2 H225 Acute Tox. 4 H332 | GHS02 GHS07 |
| hexaboron dizinc undecaoxide | 12767-90-7 | 235-804-2 | < 1.7 | Eye Irrit. 2 H319 Repr. 2 H361 Aquatic Acute 1 H400 Aquatic Chronic 2 H411 | GHS08 GHS07 GHS09 |

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|--------------|---|
| Inhalation | Treat symptomatically. |
| Skin Contact | Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). Take off immediately all contaminated clothing. Rinse skin with water. |
| Eye Contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Rinse mouth. Immediately call a POISON CENTRE/doctor. |

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

| | |
|--------------------------------|--|
| Suitable Extinguishing media | Use water spray, dry powder or carbon dioxide to extinguish. |
| Unsuitable extinguishing media | Water jet spray |

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. Combustion or thermal decomposition will evolve toxic and irritant vapours.

Thermocoat S

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

7.3 Specific end use(s)

Reserved for industrial and professional use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

| |
|------------------------------|
| Occupational Exposure Limits |
|------------------------------|

Thermocoat S

| SUBSTANCE. | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|-----------------------------------|-----------|------------------------|---------------------------------------|---------------|------------------------------|-------------|
| Xylene, o-,m-,p- or mixed isomers | 1330-20-7 | 50 | 220 | 100 | 441 | Sk, BMGV |
| Ethylbenzene | 100-41-4 | 100 | 441 | 125 | 552 | Sk |

Region Source
United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark Notes
Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
BMGV Biological monitoring guidance values are listed in Table 2.

| Biological Exposure Indices | | | | | | |
|-------------------------------------|------------|---|------------|--------------------|--------------------------------------|----------|
| Substances | CAS Number | Sampling | Tissues | Control parameters | Biological monitoring guidance value | Comments |
| Xylene, o-, m-, p- or mixed isomers | 1330-20-7 | 650 mmol methyl hippuric acid/mol creatinine in urine | Post shift | | | |

Remark Notes

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards

None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Thermocoat S

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Liquid. |
| | Colour : White |
| Odour | Paint |
| Odour threshold | Not known. |
| pH | Not known. |
| Melting point/freezing point | Not known. |
| Initial boiling point and boiling range | 136 C |
| Flash Point | Closed cup: 27°C [Pensky-Martens Closed Cup] |
| Evaporation rate | 0.8 (butyl acetate = 1) |
| Flammability (solid, gas) | Not known. |
| Upper/lower flammability or explosive limits | LEL: 0.7% (Light Aromatic Hydrocarbons) UEL: 7% (Xylene, mixed isomers) |
| Vapour pressure | 0.95 kPa [at 20°C] |
| Vapour density | 3.66 [Air = 1] |
| Density (g/ml) | Not known. |
| Relative density | 1.34 |
| Solubility(ies) | Solubility (Water) : Not known. Solubility (Other) : Not known. |
| Partition coefficient: n-octanol/water | Not known. |
| Auto-ignition temperature | Not known. |
| Decomposition Temperature (°C) | Not known. |
| Viscosity | Kinematic (40°C): <0.205 cm ² /s |
| Explosive properties | Under normal conditions of storage and use, hazardous reactions will not occur |
| Oxidising properties | Under normal conditions of storage and use, hazardous reactions will not occur |

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Avoid friction, sparks, or other means of ignition.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Thermocoat S

11.1 Information on toxicological effects

| | |
|--------------------------------|---|
| Acute toxicity - Ingestion | Calculation method : Harmful if swallowed. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 1000.20000 |
| Acute toxicity - Skin Contact | Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 3669.11000 |
| Acute toxicity - Inhalation | Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 31.46000 |
| Skin corrosion/irritation | Calculation method : Causes skin irritation. |
| Serious eye damage/irritation | Calculation method : Causes serious eye irritation. |
| Skin sensitization data | Calculation method : Not classified. |
| Respiratory sensitization data | Calculation method : Not classified. |
| Germ cell mutagenicity | Calculation method : Not classified. |
| Carcinogenicity | Calculation method : Not classified. |
| Reproductive toxicity | Calculation method : Not classified. |
| Lactation | Calculation method : Not classified. |
| STOT - single exposure | Calculation method : Not classified. |
| STOT - repeated exposure | Calculation method : Not classified. |
| Aspiration hazard | Calculation method : Not classified. |

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life.

| | |
|------------------------------------|-----------------|
| Toxicity - Aquatic invertebrates | Not known. |
| Toxicity - Fish | Not known. |
| Toxicity - Algae | Not known. |
| Toxicity - Sediment Compartment | Not classified. |
| Toxicity - Terrestrial Compartment | Not classified. |

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

Thermocoat S

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 1263

14.2 UN proper shipping name

UN proper shipping name PAINT

14.3 Transport hazard class(es)

ADR/RID

| | |
|---|----------------------|
| ADR/RID Class | 3 |
| ADR Classification Code | F1 |
| Special Provisions | 163, 367, 650 |
| Limited Quantities | 5 L |
| Excepted Quantities | E1 |
| Emergency Action Code | •3Y |
| Mixed Packing Instructions for Packages | P001 IBC03 LP01 R001 |
| Special Packing Provisions for Packages | PP1 |
| Mixed Packing Instructions for Packages | MP19 |
| Packing Instructions for Portable Tanks | T2 |
| Special Provisions for Portable Tanks | TP1 TP29 |
| Tank Code for Tanks | LGBF |
| Special Provisions for Tanks | |
| Vehicle for Tank Carriage | FL |
| ADR Transport Category | 3 |
| Tunnel Restriction Code | D/E |
| Special Provisions for Carriage - Packages | V12 |
| Special Provisions for Carriage - Bulk | |
| Special Provisions for Carriage - Loading, Unloading and Handling | |
| Special Provisions for Carriage - Operation | S2 |
| ADR HIN | 30 |
| IMDG | |

Thermocoat S

| | |
|---|----------------------|
| IMDG Class | 3 |
| Special Provisions | 163, 367, 650 |
| Limited Quantities | 5 L |
| Excepted Quantities | E1 |
| Mixed Packing Instructions for Packages | P001 IBC03 LP01 R001 |
| Special Packing Provisions for Packages | PP1 |
| Packing Instructions for Portable Tanks | T2 |
| Special Provisions for Portable Tanks | TP1 TP29 |
| IMDG EMS | F-E, S-E |
| Stowage and Handling | Category A |
| Segregation | |
| Marine Pollutant | |
| ICAO/IATA | |
| IATA Proper Shipping Name | PAINT |
| Excepted Quantities | E1 |
| Passenger and Cargo Aircraft Limited | Y344 |
| Quantities Packing Instructions | |
| Passenger and Cargo Aircraft Limited | 10L |
| Quantities Max net Qty | |
| Passenger and Cargo Aircraft Packing | 355 |
| Instructions | |
| Passenger and Cargo Aircraft Max net | 60L |
| Qty | |
| Cargo Aircraft Packing Instructions | 366 |
| Cargo Aircraft Max net Qty | 220L |
| Special Provisions | A3, A72, A192 |
| Emergency Response Guidebook (ERG) | 3L |
| Code | |
| Labels | |
| Labels | 3 |



14.4 Packing group

Packing group III

14.5 Environmental hazards

Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available

SECTION 15: REGULATORY INFORMATION

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

Thermocoat S

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Substances Not listed
of Very High Concern for Authorisation

UK REACH Authorisation List (Annex XIV) list of substances subject to
authorisation Not listed

UK REACH Restrictions List (Annex XVII) Polyphosphoric acids, ammonium salts (68333-79-9), Xylene (1330-20-7),
Restrictions on the manufacture, placing ethylbenzene (100-41-4), hexaboron dizinc undecaoxide (12767-90-7)
on the market and use of certain
dangerous substances, mixtures and
articles

UK REACH Rolling Action Plan (RAP) Not listed
The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as
amended Not listed

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases
(Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/583) Not listed

The Prior Informed Consent (PIC) Regulations concerning the export and
import of hazardous chemicals SI2008/2108 as amended Not listed

European Regulations - Authorisations and/or Restrictions On Use

Community Rolling Action Plan (CoRAP) Xylene (1330-20-7)

15.2 Chemical Safety Assessment

United Kingdom A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)



GHS02



GHS07

GHS08: GHS: Health hazard

GHS09: GHS: Environment

Hazard classification

Flam. Liq. 2 : Flammable liquid, Category 2

Flam. Liq. 3 : Flammable liquid, Category 3

Thermocoat S

Acute Tox. 4 : Acute toxicity, Category 4
Acute Tox. 4 : Acute toxicity, Category 4
Skin Irrit. 2 : Skin corrosion/irritation, Category 2
Eye Irrit. 2 : Serious eye damage/irritation, Category 2
Acute Tox. 4 : Acute toxicity, Category 4
Repr. 2 : Reproductive toxicity, Category 2
Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1
Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H361: Suspected of damaging fertility or the unborn child.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
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.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see Medical Advice on this label).
P330: Rinse mouth.

Thermocoat S

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

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

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

P370+P378: In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.

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

P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CAS : Chemical Abstracts Service

DNEL : Derived No Effect Level

EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

IATA : International Air Transport Association

IBC : Intermediate Bulk Container

ICAO : International Civil Aviation Organization

IMDG : International Maritime Dangerous Goods

LTEL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

UN : United Nations

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 data used to compile the SDS

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Thermoguard Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Thermoguard Limited accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.