



**THERMO GUARD**  
**FIRE & PROTECTIVE PAINTS**  
**SAFETY DATA SHEET**

**TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT**

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

**1.1. Product identifier**

Product name TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT  
Product No. TH/Q417/20

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

Identified uses Paint.

**1.3. Details of the supplier of the safety data sheet**

Supplier THERMOGUARD UK LTD  
Kirkby Street  
Hull  
HU2 0BE  
+44(0)1142 768008  
+44(0)1624 825115  
sales@thermoguard.co.uk  
Contact Person Sales Department - 08.00 - 17.00 hrs Mon - Fri. as above

**1.4. Emergency telephone number**

+44 (0) 1142 768008 Thermoguard UK Ltd (08.00 - 17.00 hrs Mon - Fri)

**SECTION 2: HAZARDS IDENTIFICATION**

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

Classification (EC 1272/2008)  
Physical and Chemical Hazards Not classified.  
Human health Not classified.  
Environment Not classified.

Classification (1999/45/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**2.2. Label elements**

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

**Precautionary Statements**

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P262	Do not get in eyes, on skin, or on clothing.
P271	Use only outdoors or in a well-ventilated area.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with national regulations.

**Supplemental label information**

EUH208	Contains 2,4,7,9-TETRAMETHYLDEC-5-YNE-4,7-DIOL. May produce an allergic reaction.
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## TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT

**2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

Mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotrizol-2-yl)-5-(1,1-demethylethyl)-4-hydroxyphenyl]propionates	1-5%
CAS-No.: 127519-17-9	EC No.: 407-000-3
Registration Number: 01-0000015648-61	
Classification (EC 1272/2008) Aquatic Chronic 2 - H411	Classification (67/548/EEC) N;R51/53.
2-(2-BUTOXYETHOXY)ETHANOL	<1%
CAS-No.: 112-34-5	EC No.: 203-961-6
Registration Number: 01-2119475104-44-0002	
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36
2,4,7,9-TETRAMETHYLDEC-5-YNE-4,7-DIOL	<1%
CAS-No.: 126-86-3	EC No.: 204-809-1
Registration Number: 01-2119954390-39	
Classification (EC 1272/2008) Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Xi;R41. R43,R52/53.
ETHANEDIOL	<1%
CAS-No.: 107-21-1	EC No.: 203-473-3
Registration Number: 01-2119456816-28	
Classification (EC 1272/2008) Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22
FORMALDEHYDE ...%	<0.1%
CAS-No.: 50-00-0	EC No.: 200-001-8
Classification (EC 1272/2008) Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335	Classification (67/548/EEC) Carc. Cat. 3;R40 T;R23/24/25 C;R34 R43

**TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT**

SODIUM HYDROXIDE		<0.1%
CAS-No.: 1310-73-2	EC No.: 215-185-5	
Classification (EC 1272/2008) Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

General information

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

Inhalation

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing can take place.

Ingestion

DO NOT induce vomiting. Get medical attention immediately. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

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

General information

If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

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

No specific first aid measures noted.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media**

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture**

Specific hazards

The product is non-combustible. If heated, corrosive and toxic vapours/gases may be formed.

**5.3. Advice for firefighters**

Special Fire Fighting Procedures

Avoid breathing fire vapours. Do not allow runoff to sewer, waterway or ground. Cool containers exposed to flames with water until well after the fire is out.

Protective equipment for fire-fighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

**TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT****6.2. Environmental precautions**

Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

**6.3. Methods and material for containment and cleaning up**

Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

**6.4. Reference to other sections**

For personal protection, see section 8.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Do not eat, drink or smoke when using the product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in closed original container at temperatures between 5°C and 25°C. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight. Keep containers tightly closed. Keep upright. Store separated from: Oxidising material. Alkalis. Acids.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

Usage Description

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2-(2-BUTOXYETHOXY)ETHANOL	WEL	10 ppm	67.5 mg/m <sup>3</sup>	15 ppm	101.2 mg/m <sup>3</sup>	
ETHANEDIOL	WEL		10 mg/m <sup>3</sup> (Sk)		104 mg/m <sup>3</sup> (Sk)	
FORMALDEHYDE ...%	WEL	2 ppm	2.5 mg/m <sup>3</sup>	2 ppm	2.5 mg/m <sup>3</sup>	
SODIUM HYDROXIDE	WEL				2 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

**TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT****ETHANEDIOL (CAS: 107-21-1)**

## Ingredient Comments

WEL = Workplace Exposure Limits

## DNEL

Industry	Inhalation.	Short Term	35	mg/m3
Industry	Dermal	Long Term	106	mg/m3
Consumer	Dermal	Long Term	53	mg/m3
Consumer	Inhalation.	Long Term	7	mg/m3
PNEC				
Freshwater	10	mg/l		
Marinewater	1	mg/l		
Soil	1.53	mg/l		
STP	199.5	mg/l		

**2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)**

## DNEL

Professional	Inhalation.	Local Effects	15	ppm
Industry	Inhalation.	Local Effects	15	ppm
Consumer	Dermal	Long Term	Systemic Effects	20 mg/kg/day
Professional	Inhalation.	Long Term	Systemic Effects	10 ppm
Professional	Inhalation.	Long Term	Local Effects	5 ppm
Consumer	Dermal	Local Effects	7.5	mg/m3
Consumer	Dermal	Long Term	Systemic Effects	10 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	5 mg/kg/day
Consumer	Oral	Long Term	Systemic Effects	1.3 mg/kg/day
PNEC				
Freshwater	1	mg/l		
Marinewater	0.1	mg/l		
Intermittent release	3.9	mg/l		
STP	200	mg/l		
Sediment (Freshwater)	4.0	mg/kg		
Sediment (Marinewater)	0.4	mg/kg		
Soil	0.4	mg/kg		

**8.2. Exposure controls**

## Protective equipment



## Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

## Respiratory equipment

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m3. Wear mask supplied with: Dust filter P2 (for fine dust).

## Hand protection

Use suitable protective gloves if risk of skin contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

## Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

## Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

## Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	Creamy liquid.
Colour	White / off-white.
Solubility	Miscible with water

**TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT**

Initial boiling point and boiling range >100 760 mm Hg  
(°C)  
Relative density 1.17 - 1.19 @ 20 °C  
pH-Value, Conc. Solution 4 - 5  
Viscosity 1.6 - 1.8 (ICI Rotothinner) Ps @ 25 °C

**9.2. Other information**

Volatile By Vol. (%) 65  
Volatile Organic Compound (VOC) <15 g/litre

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not determined.

**10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

**10.5. Incompatible materials**

Materials To Avoid

Strong alkalis. Strong acids. Strong oxidising substances.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Toxicological information

No data recorded.

General information

No specific health warnings noted.

Inhalation

No specific health warnings noted.

Ingestion

No harmful effects expected in amounts likely to be ingested by accident.

Skin contact

Prolonged contact may cause dryness of the skin.

Eye contact

May cause temporary eye irritation.

Health Warnings

This product has low toxicity. Only large volumes may have adverse impact on human health.

Route of entry

Skin absorption. Ingestion. Skin and/or eye contact.

**TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT**

Medical Considerations

Skin disorders and allergies.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity

There are no data on the ecotoxicity of this product.

**12.1. Toxicity****12.2. Persistence and degradability**

Degradability

The product is expected to be biodegradable.

**12.3. Bioaccumulative potential**

Bioaccumulative potential

No data available on bioaccumulation.

**12.4. Mobility in soil**

Mobility:

The product contains substances, which are water soluble and may spread in water systems.

**12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects**

Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

General information

Do not allow to enter drains, sewers or watercourses. Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

**13.1. Waste treatment methods**

Do not allow runoff to sewer, waterway or ground.

Waste Class

When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as non-hazardous waste, with code 08 01 12 (WATER BASED LIQUID WASTE). Part used containers, not drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 08 01 12 (WATER BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

**SECTION 14: TRANSPORT INFORMATION**

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable.

**14.4. Packing group**

Not applicable.

**TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT****14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant  
No.

**14.6. Special precautions for user**

No information required.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

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. 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 with amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

Revision Comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010 This is first issue.

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**TH/Q417 - WATER BASED FIRE VARNISH OVERCOAT - MATT**

## Risk Phrases In Full

R34	Causes burns.
R35	Causes severe burns.
R22	Harmful if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
NC	Not classified.
R41	Risk of serious damage to eyes.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Hazard Statements In Full

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H302	Harmful if swallowed.
H412	Harmful to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H331	Toxic if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H411	Toxic to aquatic life with long lasting effects.

## 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.