

**THERMOGUARD**  
**FIRE & PROTECTIVE PAINTS**  
**SAFETY DATA SHEET**

**TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR**

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

**1.1. Product identifier**

Product name TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR  
Product No. TH/WB101/T - ACTIVATOR

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

Identified uses ACTIVATOR FOR TWO COMPONENT ANTI-GRAFFITI COATING For use as an an anti graffiti coating over Thermoguard Wallcoat or Thermoguard SFR Dualcoat.  
Uses advised against NOT SUITABLE FOR FOR USE IN HOMEWORKER (DIY) APPLICATIONS

**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 Acute Tox. 4 - H332;Skin Sens. 1 - H317;STOT SE 3 - H335  
Environment Not classified.  
Classification (1999/45/EEC) Xn;R20. Xi;R37. R43.

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

Human health

Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system, cause asthmatic breathing, breathlessness and risk of development of respiratory allergy.

**2.2. Label elements**

Contains Hexamethylene-1,6- diisocyanate homopolymer  
Label In Accordance With (EC) No. 1272/2008



Signal Word

Warning

**TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR****Hazard Statements**

H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

**Precautionary Statements**

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P271	Use only outdoors or in a well-ventilated area.
P262	Do not get in eyes, on skin, or on clothing.
P261	Avoid breathing vapours.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container in accordance with national regulations.

**Supplementary Precautionary Statements**

P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P321	Specific treatment (see medical advice on this label).
P403+233	Store in a well-ventilated place. Keep container tightly closed.

**Supplemental label information**

EUH204	Contains isocyanates. May produce an allergic reaction.
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**2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

Hexamethylene-1,6- diisocyanate homopolymer		30-60%
CAS-No.: 28182-81-2	EC No.: 931-274-8	Registration Number: 01-2119485796-17-0002
Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Sens. 1 - H317 STOT SE 3 - H335	Classification (67/548/EEC) Xn;R20. Xi;R37. R43.	
Hexamethylene-1,6-diisocyanate homopolymer		30-60%
CAS-No.: 28182-81-2	EC No.: 500-060-2	
Classification (EC 1272/2008) Skin Sens. 1 - H317	Classification (67/548/EEC) R43.	
HEXAMETHYLENE-DI-ISOCYANATE		<1%
CAS-No.: 822-06-0	EC No.: 212-485-8	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 1 - H330 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335	Classification (67/548/EEC) T;R23 R42/43 Xi;R36/37/38	

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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

Remove soiled, soaked clothing immediately. Remove affected person from source of contamination.

Inhalation

Fresh air and rest. Get medical attention if any discomfort continues. Show this sheet to the doctor

Ingestion

DO NOT INDUCE VOMITING! Do not give anything to drink Rinse nose, mouth and throat with water.

Skin contact

Immediately remove contaminated clothing. Wash skin with soap and water. Continue to rinse for at least 15 minutes. Contact physician if irritation continues or sores develop.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation

Irritation of nose, throat and airway.

Ingestion

No specific symptoms noted.

Skin contact

Skin irritation.

Eye contact

Irritating and may cause redness and pain.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

### SECTION 5: FIREFIGHTING MEASURES

#### **5.1. Extinguishing media**

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water as an extinguisher.

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

Specific hazards

Combustible material. When heated and in case of fire, toxic vapours/gases may be formed.

#### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

Keep up-wind to avoid fumes. Use water SPRAY only to cool containers! Do not put water on leaked material.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

## TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR

Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Use protective gloves, goggles and suitable protective clothing.

### **6.2. Environmental precautions**

Contain spillages using bunding. Do not allow to enter drains, sewers or watercourses.

### **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. Flush contaminated area with plenty of water.

### **6.4. Reference to other sections**

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Mechanical ventilation or local exhaust ventilation is required. Avoid inhalation of vapours. Avoid spilling, skin and eye contact. Avoid contact with water or humidity. Comply with instructions for use (refer to technical sheet). 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 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
Hexamethylene-1,6- diisocyanate homopolymer	WEL	0.02 ppm Sen		0.07 ppm Sen		as NCO
Hexamethylene-1,6-diisocyanate homopolymer	WEL	0.02 ppm Sen		0.07 ppm Sen		
HEXAMETHYLENE-DI-ISOCYANATE	WEL		0,02 mg/m3		0,07 mg/m3	Sen, as NCO

WEL = Workplace Exposure Limit.

Sen = Capable of causing occupational asthma.

**TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR****HEXAMETHYLENE-DI-ISOCYANATE (CAS: 822-06-0)**

DNEL				
Professional	Dermal	Short Term	Systemic Effects	endpoint:sensitisation(re
Professional	Inhalation.	Short Term	Systemic Effects	0.07 mg/m3
Professional	Dermal	Long Term	Systemic Effects	endpoint: sensitisation (r
Professional	Inhalation.	Long Term	Systemic Effects	0.035 mg/m3
Professional	Dermal	Local Effects	endpoint: sensitisation (r	
Professional	Inhalation.	Local Effects	0.035	mg/m3
PNEC				
Freshwater	>0.0774	mg/l		
Marinewater	>0.00774	mg/l		
Sediment (Freshwater)	>0.01334	mg/kg		
Sediment (Marinewater)	>0.001334	mg/kg		
Soil	>0.0026	mg/kg		
STP	8.42	mg/l		

**Hexamethylene-1,6- diisocyanate homopolymer (CAS: 28182-81-2)**

DNEL				
Industry	Inhalation.	Short Term	Local Effects	1 mg/m3
Industry	Inhalation.	Long Term	Local Effects	0.5 mg/m3
PNEC				
STP	38.28	mg/l		
Intermittent release	1.27	mg/l		
Marinewater	0.0127	mg/l		
Sediment	266700	mg/kg		
Soil	53200	mg/kg		

**8.2. Exposure controls**

## Protective equipment



## Engineering measures

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

## Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

## Hand protection

Protective gloves must be used if there is a risk of direct contact or splash. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended. 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 suitable protective clothing as protection against splashing or contamination.

## 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	Clear, yellowish liquid.
Colour	Light (or pale).
Odour	Slight odour.
Solubility	Miscible with water
Initial boiling point and boiling range (°C)	Not measurable (owing to decomposition at > 150C)
Relative density	approx. 1.14 @ 20 °C
Vapour pressure	Hexamethylene-1, 6-diisocyanate = 0.014 mbar 25C
Viscosity	approx. 1200 DIN 53019/1 mPas 23C
Flash point (°C)	> 120C OC (Open cup).

**TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR****9.2. Other information**

Volatile By Vol. (%) zero  
Volatile Organic Compound (VOC) 0 g/litre

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

Reaction with: Alcohols, glycols. Amines. Bases Protic solvents Water and aqueous solutions with great release of CO<sub>2</sub>, and hence risk of a pressure build-up in confined areas, and forms an insoluble solid precipitate.

**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 contact with water.

**10.5. Incompatible materials**

Materials To Avoid

Water, steam, water mixtures.

**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

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

Inhalation

Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness. May cause sensitisation by inhalation.

Ingestion

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

Skin contact

May cause sensitisation by skin contact.

Eye contact

May cause temporary eye irritation.

Route of entry

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

Medical Considerations

Skin disorders and allergies.

Specific effects

Frequent inhalation of vapours, may cause respiratory allergy.

**TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR****SECTION 12: ECOLOGICAL INFORMATION**

## Ecotoxicity

The product is not expected to be toxic to aquatic organisms.

**12.1. Toxicity**

## Acute Fish Toxicity

Toxicity to bacteria, algae and higher marine organisms not tested.

**12.2. Persistence and degradability**

## Degradability

The product is not expected to be biodegradable.

**12.3. Bioaccumulative potential**

## Bioaccumulative potential

The product is not bioaccumulating.

**12.4. Mobility in soil**

## Mobility:

The product hardens to a solid immobile substance.

**12.5. Results of PBT and vPvB assessment**

Not Classified as PBT/vPvB by current EU criteria.

**12.6. Other adverse effects**

Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

## General information

Do not allow to enter drains, sewers or watercourses. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**13.1. Waste treatment methods**

Empty containers may be disposed of after neutralising any product remaining on the walls of the container with a mixture of water, ammonia and liquid soap.

## Waste Class

When this material, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with EWC code: 08 05 01 (WASTE ISOCYANANTES). Part-used containers, and not drained and/or rigorously scraped out containers, are categorised as hazardous waste, with EWC code 08 05 01 (WASTE ISOCYANANTES). Ideally this component should be mixed with the appropriate resin base and allowed to react fully producing a solid non hazardous waste. Transferring some, ready to use, mixed Base/Activator to the Activator package and mixing again should ensure that any Activator residue will fully react and harden. The drained and rigorously scraped out container can then be categorised as non-hazardous waste with code 15 01 02(plastic packaging) or 15 01 04 (metal packaging). If mixed with other wastes, the above waste code may not be applicable.

**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**

No information required.

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

No information required.

**TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR****14.4. Packing group**

No information required.

**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**

General information

Only trained personnel should use this material.

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 Update for CLP labelling.

Issued By Technical Dept. (P.E.)

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Revision 2

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Safety Data Sheet Status Approved.

Date Date printed \_\_\_\_\_

Signature Initials \_\_\_\_\_



**TH/WB101 - FLAME RETARDANT ANTI GRAFFITI - ACTIVATOR**

## Risk Phrases In Full

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R23	Toxic by inhalation.

## Hazard Statements In Full

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

## 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.