



# SAFETY DATA SHEET

## THOR POLYESTER STYRENE FREE BASE

Revision 0  
Revision date 21-Sep-2009

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** THOR POLYESTER STYRENE FREE BASE

**Description** BASE RESIN COMPONENT OF A TWO PART CHEMICAL ANCHOR GROUT CONTAINING UNSATURATED RESIN AND DIBENZOYL PEROXIDE CATALYST HARDENER.

**Company** Wykamol Group Limited  
Unit 3, Boran Court  
Network 65 Business Park  
Hapton, Burnley  
Lancashire. BB11 5TH  
sales@wykamol.com www.wykamol.com

**Telephone** 0845 400 6666

**Emergency telephone number** 0845 400 6666

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients	Conc.	CAS	EINECS	Symbols/Risk phrases
Vinyl toluene (mixed isomers)	10 - 20%	25013-15-4		Xi; R37/38

### 3. HAZARDS IDENTIFICATION

**Main hazards** Resin: No significant hazard. Irritating to respiratory system and skin.

### 4. FIRST AID MEASURES

**Skin contact** Remove from skin with plenty of soap and water. Remove contaminated clothing. If irritation persists, seek medical advice.

**Eye contact** Irrigate with clean water for at least 15 minutes. Seek medical attention.

**Inhalation** Move patient to fresh air and allow to rest. If patient is slow to recover or unconscious, obtain medical assistance immediately.

**Ingestion** Drink plenty of water. Seek medical attention. DO NOT INDUCE VOMITING.

**General information** First Aiders should protect themselves from exposure. Refer to Section 8.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Dry powders. CO2 and Alcohol foam. Not to be used: Halones.

**Fire hazards** Sealed containers heated can pressurise leading to explosion. Emits acrid black smoke and irritating fumes when heated to decomposition.

**Protective equipment** Wear self contained breathing apparatus.

# THOR POLYESTER STYRENE FREE BASE

Revision 0  
Revision date 21-Sep-2009

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions** Do not discharge into sewers.  
**Clean up methods** Scrape up and place into a suitable container for disposal. Wash area with water. Refer to Section 5, 8 and 13 for Protective Measures and Disposal.

## 7. HANDLING AND STORAGE

**Handling** Resin: Keep away from heat and sources of ignition.  
**Storage** Store in a cool dry place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Vinyl toluene (mixed isomers)	WEL 8-hr limit ppm: 100	WEL 8-hr limit mg/m3: 430
	WEL 15 min limit ppm: 250	WEL 15 min limit mg/m3: 1080

**Respiratory protection** If forced air extraction is unavailable in enclosed areas, an organic vapour mask will be required if the occupational exposure limit is exceeded.

**Hand protection** Wear gloves at all times.

**Eye protection** Not normally required during normal use. If splashing can occur, goggles should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Paste.
<b>Colour</b>	Amber.
<b>Odour</b>	Characteristic.
<b>Flash point</b>	53°C
<b>Explosive</b>	Lower limit 1.1% Upper limit 5.2%
<b>Relative density</b>	1.60 g/cm <sup>3</sup>
<b>Water solubility</b>	insoluble in water.
<b>Autoignition temperature</b>	575 °C

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions.

**Conditions to avoid** Resin component can polymerise (solidify) exothermically if heated, exposed to air, sunlight or by addition of free radical initiators. A dangerous self accelerating decomposition reaction and under certain circumstances explosion or fire can be caused by direct contact of the catalyst with incompatible substances or by thermal decomposition.

**Materials to avoid** Resin: Reacts violently with strong oxidising agents and peroxides.

**Hazardous decomposition products** Hazardous Decomposition: Emits acrid smoke and irritating fumes of carbon oxides when heated to decomposition. Hazardous Polymerisation: Polymerisations in a closed container can give rise to pressure, which may rupture the vessel.

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## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

Vinyl toluene (mixed isomers)

Inhalation Rat LC50/4 h h = 3000 mg/m<sup>3</sup>

### Acute toxicity

Ingestion - Resin: Vinyl toluene is classified as harmful by inhalation. Inhalation - Resin: Lung irritant, can induce drowsiness and eventual unconsciousness. Do not breathe fumes. Over exposure may cause fatigue and headaches. Eye: Irritation and redness may occur. Skin: Irritation and redness may occur.

## 12. ECOLOGICAL INFORMATION

### Degradability

Vinyl toluene is expected to biodegrade in a waste water treatment plant and is not expected to bioconcentrate in aquatic organisms.

### Further information

Do not discharge into drains or the environment.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

In an uncured state, place in a suitable container and dispose as chemical waste in accordance with local regulations. Small quantities of resin and catalyst may be reacted together, allow to cure and dispose as solid waste.

## 14. TRANSPORT INFORMATION

### Further information

Supply Label: Not classified as hazardous for transport.

## 15. REGULATORY INFORMATION

### Symbols

Xi - Irritant



### Risk phrases

R37/38 - Irritating to respiratory system and skin.

## 16. OTHER INFORMATION

### Text of risk phrases in

R37/38 - Irritating to respiratory system and skin.

### Section 2



# SAFETY DATA SHEET

## THOR POLYESTER STYRENE FREE HARDENER

Revision 0  
Revision date

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** THOR POLYESTER STYRENE FREE HARDENER

**Description** CATALYST HARDENER COMPONENT OF A TWO PART CHEMICAL ANCHOR GROUT CONTAINING UNSATURATED RESIN AND DIBENZOYL CATALYST HARDENER.

**Company** Wykamol Group Limited  
Unit 3, Boran Court  
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sales@wykamol.com www.wykamol.com

**Telephone** 0845 400 6666

**Emergency telephone number** 0845 400 6666

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients	Conc.	CAS	EINECS	Symbols/Risk phrases
Benzoyl peroxide (Dibenzoyl peroxide)	10 - 20%	94-36-0	202-327-6	E; R2 Xi; R36 R43

### 3. HAZARDS IDENTIFICATION

**Main hazards** Flammable Irritating to eyes. May cause sensitisation by skin contact.

### 4. FIRST AID MEASURES

**Skin contact** Remove from skin with plenty of soap and water. Remove contaminated clothing. If irritation persists, seek medical advice.

**Eye contact** Irrigate with clean water for at least 15 minutes. Seek medical attention.

**Inhalation** Move patient to fresh air and allow to rest. If patient is slow to recover or unconscious, obtain medical assistance immediately.

**Ingestion** Drink plenty of water. Seek medical attention. DO NOT INDUCE VOMITING.

**General information** Summon immediate medical assistance on contact with skin, eyes, inhalation or ingestion. First Aiders should protect themselves from exposure. Refer to Section 8.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Dry powders. CO2 and Alcohol foam. Not to be used: Halones.

**Fire hazards** Sealed containers heated can pressurise leading to explosion. Emits acrid black smoke and irritating fumes when heated to decomposition.

**Protective equipment** Wear self contained breathing apparatus.

# THOR POLYESTER STYRENE FREE HARDENER

Revision 0  
Revision date

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions** Do not discharge into sewers.

**Clean up methods** Scrape up and place into a suitable container for disposal. Wash area with water. Refer to Section 5, 8 and 13 for Protective Measures and Disposal.

## 7. HANDLING AND STORAGE

**Handling** No sparking tools should be used. Never bring into direct contact with accelerator.

**Storage** Catalyst: Keep away from heat and sources of ignition. Store in a cool dry place. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

THOR POLYESTER STYRENE FREE HARDENER	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 5
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -

Benzoyl peroxide (Dibenzoyl peroxide)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 5
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -

**Respiratory protection** If forced air extraction is unavailable in enclosed areas, an organic vapour mask will be required if the occupational exposure limit is exceeded.

**Hand protection** Wear gloves at all times.

**Eye protection** Not normally required during normal use. If splashing can occur, goggles should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Slight.
<b>Flash point</b>	above SADT 50°C
<b>Oxidising</b>	Oxidising
<b>Relative density</b>	1.45 g/cm <sup>3</sup>
<b>Water solubility</b>	soluble in water.
<b>Autoignition temperature</b>	> 380 °C

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions.

**Materials to avoid** Catalyst: Violent reactions may be expected with acid, alkali, heavy metals and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators.

**Hazardous decomposition products** Hazardous Decomposition: Emits acrid smoke and irritating fumes of carbon oxides when heated to decomposition. Hazardous Polymerisation: Polymerisations in a closed container can give rise to pressure, which may rupture the vessel.

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Revision 0  
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## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

THOR POLYESTER STYRENE FREE HARDENER Oral Rat LD50 = 7710 mg/m3

**Acute toxicity** Eye: Irritation and redness may occur. Skin: Irritation and redness may occur.  
**Sensitization** Catalyst: Material is classified as a sensitiser and may cause sensitisation by skin contact.

## 12. ECOLOGICAL INFORMATION

**Degradability** Vinyl toluene is expected to biodegrade in a waste water treatment plant and is not expected to bioconcentrate in aquatic organisms.

**Further information** Do not discharge into drains or the environment.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods** In an uncured state, place in a suitable container and dispose as chemical waste in accordance with local regulations. Small quantities of resin and catalyst may be reacted together, allow to cure and dispose as solid waste.

## 14. TRANSPORT INFORMATION

**Further information** Supply Label: Not classified as hazardous for transport.

## 15. REGULATORY INFORMATION

**Symbols** Xi - Irritant



**Risk phrases** R10 - Flammable.  
R36 - Irritating to eyes.  
R43 - May cause sensitisation by skin contact.

**Safety phrases** S24 - Avoid contact with skin.  
S37 - Wear suitable gloves.

## 16. OTHER INFORMATION

**Text of risk phrases in Section 2**

R2 - Risk of explosion by shock, friction, fire or other sources of ignition. R36 - Irritating to eyes.  
R43 - May cause sensitisation by skin contact.