



# SAFETY DATA SHEET

## THOR POLYESTER BASE

Revision 1  
Revision date 21-Sep-2009

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

**Product name** THOR POLYESTER 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  
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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
Styrene	20-30%	100-42-5	202-851-5	R10 Xn; R20 Xi; R36/38

### 3. HAZARDS IDENTIFICATION

**Main hazards** Flammable Harmful by inhalation. Irritating to eyes 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** 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 foam. Not to be used: Halones.

**Fire hazards** Flammable. 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.

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## 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

THOR EPOXY ACRYLATE BASE	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

Styrene	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>	31°C
<b>Explosive</b>	Lower limit 1.1% Upper limit 6.1%
<b>Relative density</b>	1.60
<b>Water solubility</b>	insoluble in water.
<b>Autoignition temperature</b>	490°C

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions. Resin component can polymerise (solidify) exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

**Conditions to avoid** 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

THOR POLYESTER BASE

Oral Rat LD50 = 2650 mg/m3

### Acute toxicity

Skin: Irritation and redness may occur. Eye: Irritation and redness may occur. Inhalation - Resin: Lung irritant, can induce drowsiness and eventual unconsciousness. Ingestion Resin: Material is classified as harmful.

## 12. ECOLOGICAL INFORMATION

### 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

### ADR/RID

UN 3269	Packing group III
Class 3	Hazard ID -
Proper Shipping Name	POLYESTER RESIN KIT .

### IMDG

UN 3269	Packing group III
Class 3	Marine pollutant .
EmS Code F-E S-D	

### IATA

UN 3269	Packing group III
Class 3	Subsidiary risk -
Packing Instruction 312 (Cargo)	Maximum quantity 5 kg
Packing Instruction 312 (Passenger)	Maximum quantity 5 kg

## 15. REGULATORY INFORMATION

### Symbols

Xn - Harmful



### Risk phrases

R10 - Flammable.  
R20 - Harmful by inhalation.  
R36/38 - Irritating to eyes and skin.

### Safety phrases

S2 - Keep out of reach of children.  
S23 - Do not breathe vapour.  
S46 - If swallowed, seek medical advice immediately and show this container or label.

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## 16. OTHER INFORMATION

Text of risk phrases in	R10 - Flammable.
Section 2	R20 - Harmful by inhalation. R36/38 - Irritating to eyes and skin.
Further information	Risk phrases used in Section 2 and not previously mentioned: R2 - Risk of explosion by shock, friction, fire or other sources of ignition. R43 - May cause sensitisation by skin contact.



# SAFETY DATA SHEET

## THOR POLYESTER HARDENER

Revision 0  
Revision date 21-Sep-2009

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

**Product name** THOR POLYESTER 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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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
Benzoyl peroxide (Dibenzoyl peroxide)	20 - 30%	94-36-0	202-327-6	E; R2 Xi; R36 R43

### 3. HAZARDS IDENTIFICATION

**Main hazards** 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 foam. Not to be used: Halones.

**Fire hazards** Flammable. 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 HARDENER

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** 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 EPOXY ACRYLATE HARDENER

WEL 8-hr limit ppm: -  
WEL 15 min limit ppm: -

WEL 8-hr limit mg/m3: 5  
WEL 15 min limit mg/m3: -

Benzoyl peroxide  
(Dibenzoyl peroxide)

WEL 8-hr limit ppm: -  
WEL 15 min limit ppm: -

WEL 8-hr limit mg/m3: 5  
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

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

**THOR POLYESTER HARDENER**

Revision 0  
Revision date 21-Sep-2009

**11. TOXICOLOGICAL INFORMATION**

## Toxicological information

THOR POLYESTER 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**

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**

ADR/RID

UN 3269

Class 3

Packing group III

Hazard ID -

Proper Shipping Name POLYESTER RESIN KIT .

IMDG

UN 3269

Class 3

Packing group III

Marine pollutant .

EmS Code F-E S-D

IATA

UN 3269

Class 3

Packing group III

Subsidiary risk -

Packing Instruction 312  
(Cargo)

Maximum quantity 5 kg

Packing Instruction 312  
(Passenger)

Maximum quantity 5 kg

**15. REGULATORY INFORMATION**

Symbols

Xi - Irritant



Risk phrases

R36 - Irritating to eyes.

R43 - May cause sensitisation by skin contact.

Safety phrases

S2 - Keep out of reach of children.

S23 - Do not breathe vapour.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S24 - Avoid contact with skin.

S37 - Wear suitable gloves.

# THOR POLYESTER HARDENER

Revision

0

16. OTHER INFORMATION Text of risk phrases in

Section

R2 - Risk of explosion by shock, friction, fire or other sources of ignition. R36 - Irritating to eyes.

R43 - May cause sensitisation by skin contact.

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