



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
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
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.

THOR POLYESTER BASE

Revision 1
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

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

Description	Paste.
Colour	Amber.
Odour	Characteristic.
Flash point	31°C
Explosive	Lower limit 1.1% Upper limit 6.1%
Relative density	1.60
Water solubility	insoluble in water.
Autoignition temperature	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.

THOR POLYESTER BASE

Revision 1
Revision date 21-Sep-2009

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.

THOR POLYESTER BASE

Revision 1
Revision date 21-Sep-2009

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
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
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/cm³
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 HARDENERRevision 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.

Print date 21-Sep-2009