

Centrecoat Strongcoat DPM Part A Resin

Revision: 17

Revision date: 08/03/2017

Supersedes date: 03/06/2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Centrecoat Strongcoat DPM Part A Resin
Internal identification SCDPMR/17

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

Identified uses Component of epoxy resin based system
Uses advised against None

1.3. Details of the supplier of the safety data sheet

Supplier

Promain UK Limited
Promain House
Knowl Piece Business Park
Hitchin
Hertfordshire
SG4 0TY
Tel: 01462 421333 Mon-Fri 08:30 - 16:30 (excl bank holidays)
E-Mail: info@promain.co.uk

1.4. Emergency telephone number

Emergency telephone 01462 421333 Mon-Fri 8.30am - 16.30pm (excluding Bank Holidays)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC) Xi;R36/38. R43. N;R51/53.

Human health The liquid is irritating to eyes and skin. Risk of sensitisation by skin contact

Environmental The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

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Pictogram



Signal word

Warning

Hazard statements

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P313 Get medical advice/ attention.

Contains

EPOXY RESIN (Number average MW ≤ 700), BISPHENOL F EPOXY RESIN, OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS, C13/15 ALKYLGLYCIDYL ETHER

Supplementary precautionary statements

P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | |
|--|--|---|
| EPOXY RESIN (Number average MW ≤ 700) | | 30-60% |
| CAS number: 25068-38-6 | EC number: 500-033-5 | REACH registration number: 01-2119456619-26 |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Skin Irrit. 2 - H315 | R43 Xi;R36/38 N;R51/53 | |
| Eye Irrit. 2 - H319 | | |
| Skin Sens. 1 - H317 | | |
| Aquatic Chronic 2 - H411 | | |
| OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS | | 10-30% |
| CAS number: 68609-97-2 | REACH registration number: 01-2119485289 | |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Skin Irrit. 2 - H315 | R43 Xi;R38 | |
| Skin Sens. 1 - H317 | | |

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| | |
|---|---|
| BISPHENOL F EPOXY RESIN | 1-10% |
| CAS number: 9003-36-5 | REACH registration number: 01-2119454392-40 |
| Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411 | Classification (67/548/EEC or 1999/45/EC) Xi;R36/38. N;R51/53. R43. |
| N-METHYL-2-PYRROLIDONE | <0.5% |
| CAS number: 872-50-4 | EC number: 212-828-1 |
| | REACH registration number: 01-2119472430-46-xxxx |
| Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 1B - H360D STOT SE 3 - H335 | Classification (67/548/EEC or 1999/45/EC) Repr. Cat. 2;R61 Xi;R36/37/38 |
| DI-ISOBUTYL KETONE | <0.5% |
| CAS number: 108-83-8 | EC number: 203-620-1 |
| Classification Flam. Liq. 3 - H226 STOT SE 3 - H335 | Classification (67/548/EEC or 1999/45/EC) R10 Xi;R37 |

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

Composition comments Epoxy resin blend.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|----------------------------|---|
| General information | Remove affected person from source of contamination. |
| Inhalation | Move affected person to fresh air at once. Get medical attention if any discomfort continues. |
| Ingestion | Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention immediately. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing. |
| Eye contact | Rinse immediately with plenty of water. 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 | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | May cause discomfort. |
| Ingestion | May cause discomfort if swallowed. |
| Skin contact | Skin irritation. May cause an allergic skin reaction. |

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Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media 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 Toxic gases/vapours/fumes of: Oxides of the following substances: Carbon. Nitrogen.

Hazardous combustion products Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillages with sand, earth or any suitable absorbent material.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Collect spillage in containers, seal securely and deliver for disposal as hazardous waste.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using the product.

Advice on general occupational hygiene Promptly remove any clothing that becomes contaminated. Wash contaminated clothing before reuse. Wash after use and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions

Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C. Store in a cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

N-METHYL-2-PYRROLIDONE

Long-term exposure limit (8-hour TWA): WEL 10 ppm 40 mg/m³

Short-term exposure limit (15-minute): WEL 20 ppm 80 mg/m³

Sk

DI-ISOBUTYL KETONE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 148 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

EPOXY RESIN (Number average MW <= 700) (CAS: 25068-38-6)

DNEL Workers - Dermal; : 8.3 mg/kg
Workers - Inhalation; : 12.3 mg/m³

PNEC - Fresh water; 0.003 mg/l
- Marine water; 0.0003 mg/l

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (CAS: 64742-95-6)

DNEL Workers - Dermal; Long term systemic effects: 25 mg/kg
Workers - Inhalation; Long term systemic effects: 150 mg/m³
Consumer - Dermal; Long term systemic effects: 11 mg/kg
Consumer - Inhalation; Long term systemic effects: 32 mg/m³
Consumer - Oral; Long term systemic effects: 11 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Personal protection

Always check applicability with your supplier of protective equipment.

Eye/face protection

If there is a risk of splashing, wear chemical resistant goggles or visor approved to BS EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Nitrile gloves to BSEN374 are recommended. Break through times can vary depending on thickness, use and source. Change gloves regularly.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

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| | |
|--|---|
| Hygiene measures | Provide eyewash station. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Wash contaminated clothing before reuse. |
| Respiratory protection | No specific recommendations. |
| Thermal hazards | None |
| Environmental exposure controls | Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. |

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Appearance | Viscous liquid. |
| Colour | Blue. |
| Odour | Characteristic. |
| Odour threshold | Not determined. |
| pH | Not applicable. |
| Melting point | Not applicable. |
| Initial boiling point and range | Not determined. |
| Flash point | Not determined. |
| Evaporation rate | Not determined. |
| Evaporation factor | Not determined. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | Not applicable. |
| Other flammability | Not applicable. |
| Vapour pressure | Not determined. |
| Vapour density | Not determined. |
| Relative density | 1.80 approx. @ 20°C |
| Bulk density | Not determined. |
| Solubility(ies) | Insoluble in water. |
| Partition coefficient | Not determined. |
| Auto-ignition temperature | Not applicable. |
| Decomposition Temperature | Not applicable. |
| Viscosity | Not determined. |
| Explosive properties | Not applicable. |
| Explosive under the influence of a flame | Not considered to be explosive. |
| Oxidising properties | Not determined. |
| Comments | Information given is applicable to the product in its ready-to-use form. |

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9.2. Other information

| | |
|----------------------------------|-----------------|
| Other information | None. |
| Refractive index | Not determined. |
| Particle size | Not applicable. |
| Molecular weight | Not determined. |
| Volatility | Not determined. |
| Saturation concentration | Not determined. |
| Critical temperature | Not determined. |
| Volatile organic compound | Not determined. |

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|-------------------|---|
| Reactivity | The following materials may react with the product: Acids. Strong alkalis. Strong oxidising agents. |
|-------------------|---|

10.2. Chemical stability

| | |
|------------------|--|
| Stability | Stable at normal ambient temperatures. |
|------------------|--|

10.3. Possibility of hazardous reactions

| | |
|---|---|
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. Considerable exothermic reaction can occur when mixed with epoxide hardeners. |
|---|---|

10.4. Conditions to avoid

| | |
|----------------------------|--|
| Conditions to avoid | Avoid contact with acids and oxidising substances. |
|----------------------------|--|

10.5. Incompatible materials

| | |
|---------------------------|--|
| Materials to avoid | Strong acids. Strong alkalis. Strong oxidising agents. |
|---------------------------|--|

10.6. Hazardous decomposition products

| | |
|---|---------------------------------------|
| Hazardous decomposition products | Oxides of carbon. Oxides of nitrogen. |
|---|---------------------------------------|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|------------------------------|---------------------------|
| Toxicological effects | No information available. |
|------------------------------|---------------------------|

Acute toxicity - oral

| | |
|-------------------------------------|--------------------------------------|
| Notes (oral LD₅₀) | No specific test data are available. |
|-------------------------------------|--------------------------------------|

Acute toxicity - dermal

| | |
|---------------------------------------|--------------------------------------|
| Notes (dermal LD₅₀) | No specific test data are available. |
|---------------------------------------|--------------------------------------|

Acute toxicity - inhalation

| | |
|---|--------------------------------------|
| Notes (inhalation LC₅₀) | No specific test data are available. |
|---|--------------------------------------|

Skin corrosion/irritation

| | |
|----------------------------------|--|
| Skin corrosion/irritation | Irritating to skin., Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. |
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|--------------------|--------------------------------------|
| Animal data | No specific test data are available. |
|--------------------|--------------------------------------|

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|--|--|
| Human skin model test | No specific test data are available. |
| Extreme pH | No specific test data are available. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Irritation of eyes is assumed. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | No specific test data are available. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Sensitising. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | No specific test data are available. |
| Genotoxicity - in vivo | No specific test data are available. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | No specific test data are available. |
| Target organ for carcinogenicity | No specific target organs known. |
| IARC carcinogenicity | Not listed. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | No specific test data are available. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | No specific test data are available. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | No specific test data are available. |
| <u>Aspiration hazard</u> | |
| Aspiration hazard | Not relevant. |
| General information | No specific health hazards known. |
| Inhalation | May cause some discomfort in poorly ventilated areas. |
| Ingestion | No specific health hazards known. |
| Skin contact | Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact. |
| Eye contact | Irritating to eyes. |
| Acute and chronic health hazards | Irritating to skin. Irritating to eyes. May cause sensitisation by skin contact. |
| Route of entry | Skin and/or eye contact |
| Target organs | Eyes Skin |
| Medical symptoms | Skin irritation. Irritation of eyes and mucous membranes. |
| Medical considerations | Pre-existing eye problems. Skin disorders and allergies. |

SECTION 12: Ecological Information

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| | |
|--|---|
| Ecotoxicity | The product should not be allowed to enter drains, sewers or watercourses. |
| <u>12.1. Toxicity</u> | |
| Toxicity | Not available |
| Acute toxicity - fish | Not determined |
| Acute toxicity - aquatic invertebrates | Not determined. |
| Acute toxicity - aquatic plants | Not determined. |
| Acute toxicity - microorganisms | Not determined. |
| Acute toxicity - terrestrial | Not determined. |
| Chronic toxicity - fish early life stage | Not determined. |
| Short term toxicity - embryo and sac fry stages | Not determined. |
| Chronic toxicity - aquatic invertebrates | Not determined. |
| <u>12.2. Persistence and degradability</u> | |
| Persistence and degradability | There are no data on the degradability of this product. |
| Phototransformation | Not determined. |
| Stability (hydrolysis) | Not determined. |
| Biodegradation | Highly insoluble in water. |
| Biological oxygen demand | Not determined. |
| Chemical oxygen demand | Not determined. |
| <u>12.3. Bioaccumulative potential</u> | |
| Bioaccumulative potential | No data available on bioaccumulation. |
| Partition coefficient | Not determined. |
| <u>12.4. Mobility in soil</u> | |
| Mobility | The product is insoluble in water. |
| Adsorption/desorption coefficient | Not determined. |
| Henry's law constant | Not determined. |
| Surface tension | Not determined. |
| <u>12.5. Results of PBT and vPvB assessment</u> | |
| Results of PBT and vPvB assessment | This substance is not classified as PBT or vPvB according to current EU criteria. |
| <u>12.6. Other adverse effects</u> | |
| Other adverse effects | None known. |

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|--|
| SECTION 13: Disposal considerations |
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13.1. Waste treatment methods

Disposal methods

Small quantities of product may be treated with an equivalent quantity of product hardener, allowed to cure and disposed of as low hazard waste. Large quantities should be disposed of via licensed waste operators to an approved incineration unit. Product containers must not be re-used without commercial cleaning.

SECTION 14: Transport information

14.1. UN number

| | |
|------------------|------|
| UN No. (ADR/RID) | 3082 |
| UN No. (IMDG) | 3082 |
| UN No. (ICAO) | 3082 |
| UN No. (ADN) | 3082 |

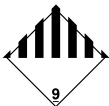
14.2. UN proper shipping name

| | |
|--------------------------------|--|
| Proper shipping name (ADR/RID) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS C13/15 ALKYLGLYCIDYL ETHER, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC) |
| Proper shipping name (IMDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS C13/15 ALKYLGLYCIDYL ETHER, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC) |
| Proper shipping name (ICAO) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS C13/15 ALKYLGLYCIDYL ETHER, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC) |
| Proper shipping name (ADN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS C13/15 ALKYLGLYCIDYL ETHER, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC) |

14.3. Transport hazard class(es)

| | |
|-----------------------------|----|
| ADR/RID class | 9 |
| ADR/RID classification code | M6 |
| ADR/RID label | 9 |
| IMDG class | 9 |
| ICAO class/division | 9 |
| ADN class | 9 |

Transport labels



14.4. Packing group

| | |
|-----------------------|-----|
| ADR/RID packing group | III |
| IMDG packing group | III |
| ADN packing group | III |
| ICAO packing group | III |

14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

| | |
|--|----------|
| EmS | F-A, S-F |
| ADR transport category | 3 |
| Emergency Action Code | •3Z |
| Hazard Identification Number (ADR/RID) | 90 |
| Tunnel restriction code | (E) |

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|---|--|
| National regulations | Control of Substances Hazardous to Health Regulations 2002 (as amended). |
| Guidance | Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. |
| Authorisations (Title VII Regulation 1907/2006) | No specific authorisations are known for this product. |
| Restrictions (Title VIII Regulation 1907/2006) | No specific restrictions on use are known for this product. |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

| | |
|--|---|
| General information | Technical Datasheet. Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong (Primers, Sealers and Undercoats). VOC Content (mixed with hardener) not exceeding 54g/litre. |
| Key literature references and sources for data | Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits. |
| Revision comments | Section 1 update |
| Revision date | 08/03/2017 |
| Revision | 17 |
| Supersedes date | 03/06/2016 |
| SDS status | Approved. |

Centrecoat Strongcoat DPM Part A Resin

Risk phrases in full

R10 Flammable.
R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61 May cause harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H360D May damage the unborn child.
H411 Toxic to aquatic life with long lasting effects.

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.