

PREFLEX 300 CURING

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier PREFLEX 300 CURING

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

Curing agent component of Preflex 300 polysulphide sealant

1.3 Details of the supplier of the data sheet

Premcrete LTD
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Andover
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+44 (0) 800 6191619
7.00am-5:00pm Mon-Fri

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Elicitation - ECH208
Environmental hazards	Aquatic Chronic 2 - H411

2.2 Label elements

Pictogram



Signal word	Warning
Hazard statements	H302 Harmful if swallowed. H411 Toxic to aquatic life with long lasting effects. EUH208 Contains THIRAM. May produce an allergic reaction.
Precautionary Statements	P273 Avoid release to the environment. P280 Wear protective gloves. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell P501 Dispose of contents/container in accordance with national regulations. EUH210 Safety data sheet available on request
Contains	MANGANESE DIOXIDE

2.3 Other hazards

3. COMPOSITION INFORMATION ON INGREDIENTS

3.1 Mixtures

MANGANESE DIOXIDE	30-60%
CAS number: 1313-13-9	EC number: 215-202-6

Classification

Acute Tox. 4 - H302

Acute Tox. 4 - H332

DIPROPYLENE GLYCOL DIBENZOATE 10-30%

CAS number: 27138-31-4 EC number: 248-258-5

Classification

Aquatic Chronic 3 - H412

THIRAM

<1%

CAS number: 137-26-8

EC number: 205-286-2

M factor (Acute) = 10

M factor (Chronic) = 10

Classification

Acute Tox. 4 - H302

Acute Tox. 4 - H332

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

STOT RE 2 - H373

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

1,3-DIPHENYLGUANIDINE

<1%

CAS number: 102-06-7

EC number: 203-002-1

Classification

Acute Tox. 4 - H302

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Repr. 2 - H361f

STOT SE 3 - H335

Aquatic Chronic 2 - H411

ALKANES, C14-17, CHLORO

<1%

CAS number: 85535-85-9

EC number: 287-477-0

M factor (Acute) = 1

M factor (Chronic) = 1

Classification

Lact. - H362

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information	In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
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. Give milk instead of water if readily available. Get medical attention.
Skin contact	Wipe off excess material with cloth or paper. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eye lids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2 4.2 Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known. The product contains a powder which is hazardous by inhalation. This is not relevant to the current physical form of the product which is not in a respirable form.
Ingestion	Harmful if swallowed. May cause stomach pain or vomiting.
Skin contact	The product contains a small amount of sensitising substance. May cause an allergic skin reaction.
Eye contact	May cause temporary eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.
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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, fog or mist. 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	No unusual fire or explosion hazards noted.
Hazardous combustion	Oxides of carbon. Thermal decomposition or combustion may liberate carbon products oxides and other toxic gases or vapours.

5.3 Advice for firefighters

Protective actions during	Cool containers exposed to flames with water until well after the fire is out. Special protective
Special protective equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and for firefighters appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet.
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6.2 Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Collect and place in suitable waste disposal containers and seal securely. Avoid the spillage or runoff entering drains, sewers or watercourses. Wash thoroughly after dealing with a spillage.
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6.4 Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see
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section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Usage precautions	Avoid contact with skin and eyes. Persons susceptible to allergic reactions should not handle this product. Good personal hygiene procedures should be implemented. Avoid release to the environment.
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7.2 Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool place.
Storage class	Miscellaneous hazardous material storage.

7.3 Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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8. EXPOSURE CONTROL AND PROTECTION MEASURES

8.1 Control parameters

MANGANESE DIOXIDE (CAS: 1313-13-9)

DNEL	Workers - Inhalation; Long term systemic effects: 0.2 mg/m ³
	Workers - Dermal; Long term systemic effects: 0.00414 mg/kg/day
	General population - Inhalation; Long term systemic effects: 0.043 mg/m ³
	General population - Dermal; Long term systemic effects: 0.0021 mg/kg/day
PNEC	- Fresh water; 0.00014 mg/l
	- Marine water; 0.000014 mg/l
	- Intermittent release; 0.00074 mg/l
	- STP; 100 mg/l
	- Sediment (Freshwater); 0.037 mg/kg
	- Sediment (Marinewater); 0.0037 mg/kg
	- Soil; 0.028 mg/kg

DIPROPYLENE GLYCOL DIBENZOATE (CAS: 27138-31-4)

DNEL

Workers - Inhalation; Long term systemic effects: 8.8 mg/m³
Workers - Inhalation; Short term systemic effects: 35.08 mg/m³
Workers - Dermal; Long term systemic effects: 10 mg/kg/day
Workers - Dermal; Short term systemic effects: 170 mg/kg/day
General population - Inhalation; Long term systemic effects: 8.69 mg/m³
General population - Inhalation; Short term systemic effects: 8.7 mg/l
General population - Dermal; Long term systemic effects: 0.22 mg/kg/day

General population - Dermal; Short term systemic effects: 80 mg/kg/day
General population - Oral; Long term systemic effects: 5.0 mg/kg/day
General population - Oral; Short term systemic effects: 80 mg/kg/day

PNEC

- Fresh water; 3.7 µg/l
- Marine water; 0.37 µg/l
- Intermittent release; 37 µg/l
- STP; 10 mg/l
- Sediment (Freshwater); 1.49 mg/kg
- Sediment (Marinewater); 0.149 mg/kg
- Soil; 1.0 mg/kg
- Oral (food); 333 mg/kg

ALKANES, C14-17, CHLORO (CAS: 85535-85-9)

DNEL

Workers - Inhalation; Long term systemic effects: 6.7 mg/m³
Workers - Dermal; Long term systemic effects: 47.9 mg/kg/day
General population - Inhalation; Long term systemic effects: 2 mg/m³
General population - Dermal; Long term systemic effects: 28.75 mg/kg/day
General population - Oral; Long term systemic effects: 0.58 mg/kg/day

PNEC

- Fresh water; 1 µg/l
- Marine water; 0.2 µg/l



- STP; 80 mg/l
- Sediment (Freshwater); 13 mg/kg
- Sediment (Marinewater); 2.6 mg/kg
- Soil; 11.9 mg/kg

8.2 Exposure controls

Protective equipment



Eye/face protection	Not generally required. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the break through time of the glove material.
Hygiene measures	Wash hands at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	No specific recommendations.
Environmental exposure Controls	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Paste.
Colour	Dark Brown.
Odour	Mild
Odour threshold	Not applicable.

pH	Not determine.
Melting point	Not applicable.
Initial boiling point and range	Not applicable.
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	~ 1.60 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Manganese dioxide: 535 C
Viscosity	7,000 - 9,000 P @ 20°C
Explosive properties	Not applicable.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2 Other information

Other information	None.
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10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2 Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3 Possibility of hazardous reactions

Possibility of hazardous Reactions Not determined. Will not polymerise.

10.4 Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

Materials to avoid Strong acids. Strong reducing agents.

10.6 Hazardous decomposition products

Hazardous decomposition Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological effects There are no data available on this product.

Acute toxicity – oral

Notes (oral LD50) For this endpoint no toxicological data is available for the whole product.
ATE oral (mg/kg) 1,652.04

Acute toxicity – dermal

Notes (dermal LD50) For this endpoint no toxicological data is available for the whole product.

Acute toxicity – inhalation

Notes (inhalation LC50) For this endpoint no toxicological data is available for the whole product.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation The product contains a small amount of a sensitising substance which may cause an allergic reaction in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitro	For this endpoint no toxicological data is available for the whole product.
Carcinogenicity	
Carcinogenicity	For this endpoint no toxicological data is available for the whole product.
Reproductive toxicity	
Reproductive toxicity - fertility	For this endpoint no toxicological data is available for the whole product.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Not relevant, due to the form of the product.
Inhalation	No significant hazard at normal ambient temperatures. Heating may generate
the following products:	Toxic gases or vapours.
Ingestion	Harmful if swallowed. May cause stomach pain or vomiting.

Skin contact	Prolonged and frequent contact may cause redness and irritation. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.
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Eye contact	May cause temporary eye irritation.
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Toxicological information on ingredients.

MANGANESE DIOXIDE

Acute toxicity - oral

Notes (oral LD50)	LD50 >3480 mg/kg, Oral, Rat REACH dossier information.
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Skin corrosion/irritation

Animal data	Not irritating.
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Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

DIPROPYLENE GLYCOL DIBENZOATE

Acute toxicity - oral

Notes (oral LD50) LD50 3295 - 5072 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD50) LD50 >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC50) LC50 >200 mg/l/4hr/day, Inhalation, Rat

Skin corrosion/irritation

Animal data Oedema score: No oedema (0). Erythema/eschar score: No erythema (0).
Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Reproductive toxicity

Reproductive toxicity - Fetotoxicity: - NOAEL: 500 mg/kg, Oral, Rat

Development

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 1000 mg/kg, Oral, Rat

12. ECOLOGICAL INFORMATION

Ecotoxicity The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

12.1 Toxicity

Toxicity There are no data for the product.

Ecological information on ingredients.

MANGANESE DIOXIDE

Acute toxicity - fish LC80, 96 hours: >100 %, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic Invertebrates EC80, 48 hours: >100 %, Daphnia magna

Acute toxicity - aquatic Plants EC80, : >100 %, Desmodesmus subspicatus

Acute toxicity - Microorganisms EC80, 3 hours: >1000 mg/l, Activated sludge
NOEC, : 1000 mg/l, Activated sludge

DIPROPYLENE GLYCOL DIBENZOATE

Acute toxicity - fish LC80, 96 hours: 3.7 mg/l, Pimephales promelas (Fat-head Minnow)
NOEC, 96 hours: 1.2 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic Invertebrates EL50, 48 hours: 19.3 mg/l, Daphnia magna
NOELR, 48 hours: 2.2 mg/l, Daphnia magna

Acute toxicity - Microorganisms EC80, 3 hours: >100 mg/l, Activated sludge
NOEC, 3 hours: >= 100 mg/l, Activated sludge

THIRAM

Acute aquatic toxicity

LE(C)80 $0.01 < L(E)C50 \leq 0.1$

M factor (Acute) 10

Acute toxicity - fish LC50, 96 hours: 0.046 - 1.20 mg/l,

Acute toxicity - aquatic EC50, 48 hours: >0.2 mg/l, Daphnia magna
InvertebratesAcute toxicity - aquatic EC50, 120 hours: 0.14 mg/l, Freshwater algae
Plants

Chronic aquatic toxicity

M factor (Chronic) 10

1,3-DIPHENYLGUANIDINE

Acute toxicity - fish LC50, 96 hours: 9.6 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic EC50, 48 hours: 17.0 mg/l, Daphnia magna
InvertebratesAcute toxicity - aquatic EC50, 96 hours: 1.7 mg/l, Selenastrum capricornutum
Plants**12.2** Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

DIPROPYLENE GLYCOL DIBENZOATE

Biodegradation Water - Degradation 85%: 28 days

12.3 Bioaccumulative potentialBioaccumulative potential No data available on bioaccumulation.
Partition coefficient Not applicable.

14.3 Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M7
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

Environmentally hazardous substance/marine pollutant

**14.6** 14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to
Annex II of MARPOL 73/78
and the IBC Code

No information required.

15. REGULATORY INFORMATION

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

EU legislation Regulation (EC) 1907/2006 REACH.
 Regulation (EC) 1272/2008 CLP.

Guidance Workplace Exposure Limits EH40.

15.2 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16. OTHER INFORMATION

Revision comments Classification and labelling according to CLP Regulations.

SDS number 10198

Hazard statements in full EUH208 Contains THIRAM. May produce an allergic reaction.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H361f Suspected of damaging fertility.
 H362 May cause harm to breast-fed children.
 H373 May cause damage to organs through prolonged or repeated
 exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

The above information is believed to be correct but not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the product.