PREMCRETE PU PRIMER P2

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier
Premcrete PU Primer P2

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Monocomponent industrial coating - Industrial use.

1.3 Details of the supplier of the data sheet
FIS Construction Products
44 Macadam Way
West Portway
Andover
SP10 3XW

sales@fisproducts.co.uk
www.fisproducts.co.uk

Emergency telephone number
+44 (0) 800 6191619
7.00am-5:00pm Mon-Fri

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Flammable Liquid, category 3	H226
Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
Respiratory Sensitizer, category 1	H334
STOT, single exposure, category 3, RTI	H335
Carcinogenicity, category 2	H351
STOT, repeated exposure, category 2	H373

2.2 Label elements

Symbol(s) of Product

Signal Word

Danger

Named Chemicals on Label

ethylbenzene, 4,4'-methylenediphenyl diisocyanate, xylene, diphenylmethane-2,4'-diisocyanate, oligomeric mdi: oligimeric reaction products of formaldehyde with analine and phosgene, prepolymer based on aromatic isocyanate

HAZARD STATEMENTS

Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Respiratory Sensitizer, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.

PRECAUTION PHRASES

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P284	Wear respiratory protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.

P314	Get medical advice/attention if you feel unwell.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P341	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:
The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. COMPOSITION INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous Ingredients

CAS-No.	EINEC No.	Name According to EEC	%
1330-20-7	215-535-7	xylene	50-75
67815-87-6		prepolymer based on aromatic isocyanate	10-25
100-41-4	202-849-4	ethylbenzene	10-25
101-68-8	202-966-0	4,4'-methylenediphenyl diisocyanate	2.5-10
32055-14-4		oligomeric mdi: oligimeric reaction products of formaldehyde with analine and phosgene	2.5-10
5873-54-1	227-534-9	diphenylmethane-2,4'-diisocyanate	1.0-2.5
108-88-3	203-625-9	toluene	0.1-1.0
2536-05-2	219-799-4	2,2'-methylenediphenyl diisocyanate	<0.1

CAS-No.	REACH Reg No.	CLP Symbols	CLP Hazard Statements	M-Factors
1330-20-7	01-2119488216-32	GHS02-GHS07	H226-315-332	
67815-87-6		GHS07-GHS08	H317-334-335-373-412	
100-41-4		GHS02-GHS07-GHS08	H225-304-315-319-332-373	
101-68-8	01-2119457014-47	GHS07-GHS08	H315-317-319-332-334-335-351-373	
32055-14-4		GHS07-GHS08	H315-317-319-332-334-335-351-373	
5873-54-1		GHS07-GHS08	H315-319-334-335	
108-88-3	01-2119471310-51	GHS02-GHS07-GHS08	H225-304-315-336-361d-373	
2536-05-2		GHS07-GHS08	H315-319-334-335	

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.
AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.
AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses.
AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Self-protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Harmful by inhalation. Do not ingest. Irritating to eyes and skin. Risk of serious damage to the lungs (by aspiration). Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:

Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog
FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Flammable.

5.3 Advice for firefighters

Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours may form explosive mixtures with air. Electrical equipment should be protected to the appropriate standard. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Do not breathe vapours or spray mist. Keep away from sources of ignition - No smoking. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Direct sources of heat.
STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

No specific advice for end use available.

8. EXPOSURE CONTROL AND PROTECTION MEASURES

8.1 Control parameters

Ingredients with Occupational Exposure Limits
(UK WELS)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
xylene	1330-20-7	50	100	441	220
prepolymer based on aromatic isocyanate	67815-87-6				
ethylbenzene	100-41-4	100	125	552	441
4,4'-methylenediphenyl diisocyanate	101-68-8			0.07	0.02
oligomeric mdi: oligimeric reaction products of formaldehyde with analine and phosgene	32055-14-4				
diphenylmethane-2,4'-diisocyanate	5873-54-1			0.07	0.02
toluene	108-88-3	50	100	384	191
2,2'-methylenediphenyl diisocyanate	2536-05-2				

Name	CAS-No.	OEL Note
xylene	1330-20-7	
prepolymer based on aromatic isocyanate	67815-87-6	
ethylbenzene	100-41-4	
4,4'-methylenediphenyl diisocyanate	101-68-8	
oligomeric mdi: oligimeric reaction products of formaldehyde with analine and phosgene	32055-14-4	
diphenylmethane-2,4'-diisocyanate	5873-54-1	
toluene	108-88-3	
2,2'-methylenediphenyl diisocyanate	2536-05-2	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Respirator with combination filter for vapour/particulate (EN 141).
EYE PROTECTION: Safety glasses with side-shields conforming to EN166.

HAND PROTECTION: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use.
OTHER PROTECTIVE EQUIPMENT: No Information
ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

Chemical Name:

4,4'-methylenediphenyl diisocyanate

EC No.: 202-966-0

CAS-No.: 101-68-8

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					20 mg/kg body weight/day		
Inhalation	0.1 mg/m³ air	0.1 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.025 mg/m³ air	0.025 mg/m³ air
Dermal	28.7 mg/kg	50 mg/kg body weight/day			17.2 mg/kg	25 mg/kg body weight/day		

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	>1 mg/l
Fresh water sediments	
Marine water	>0.1 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	>1 mg/l
soil (agricultural)	>1 mg/kg dry weight
Air	

Chemical Name:

diphenylmethane-2,4'-diisocyanate

EC No.: 227-534-9

CAS-No.: 5873-54-1

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					20 mg/kg body weight/day		
Inhalation	0.1 mg/m³ air	0.1 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.025 mg/m³ air	0.025 mg/m³ air
Dermal	28.7 mg/kg	50 mg/kg body weight/day			17.2 mg/kg	25 mg/kg body weight/day		

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	> 1 mg/l
Fresh water sediments	
Marine water	>0.1 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	>1 mg/l
soil (agricultural)	>1 mg/kg dry weight
Air	

Chemical Name:

xylene

EC No.: 215-535-7

CAS-No.: 1330-20-7

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							1.6 mg/kg
Inhalation	289 mg/m³	289 mg/m³		77 mg/m³	174 mg/m³	174 mg/m³		14.8 mg/m³
Dermal				180 mg/kg				108 mg/kg

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.327 mg/l
Fresh water sediments	12.46 mg/kg
Marine water	0.327 mg/l
Marine sediments	12.46 mg/kg
Food chain	
Microorganisms in sewage treatment	6,58 mg/l
soil (agricultural)	2,31 mg/kg
Air	

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Brown liquid
Physical State	Liquid
Odor	Aromatic
Odor threshold	Not determined
pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	137°C - 143°C
Flash Point, (°C)	25
Evaporation rate	Not determined
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limits	1 - 7
Vapour Pressure	8hPa
Vapour density	Not determined
Relative density	Not determined
Solubility in / Miscibility with water	Immiscible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	460°C
Decomposition temperature (°C)	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other information

VOC Content g/l:	790
Specific Gravity (g/cm3)	1.040

10. STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under recommended storage conditions. Risk of ignition.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Direct sources of heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:	No Information
Inhalation LC50:	No Information
Irritation:	No information available.
Corrosivity:	No information available.
Sensitization:	No information available.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.
STOT-single exposure:	No information available.
STOT-repeated exposure:	No information available.
Aspiration hazard:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50
1330-20-7	xylene	3523 mg/kg	12126 mg/kg, rabbit	27.124 mg/l
67815-87-6	prepolymer based on aromatic isocyanate	>5000 mg/kg oral rat		
100-41-4	ethylbenzene	3500 mg/kg rat, oral	5510 mg/kg, rabbit	4000 ppm, rat, 4h
101-68-8	4,4'-methylenediphenyl diisocyanate	>5000mg/kg	>9400 mg/kg	
32055-14-4	oligomeric mdi: oligimeric reaction products of formaldehyde with analine and phosgene		>9400 mg/kg	
5873-54-1	diphenylmethane-2,4'-diisocyanate	>2000 mg/kg	>9400 mg/kg	
108-88-3	toluene	5000 mg/kg rat oral	14000 mg/kg rabbit	8000 ppm/4hrs, rat, inhalation
2536-05-2	2,2'-methylenediphenyl diisocyanate		> 9400 mg/kg	

Additional Information:
No Information

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects: No information

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
1330-20-7	xylene		No information	2.6 mg/l
67815-87-6	prepolymer based on aromatic isocyanate	No information	No information	No information
100-41-4	ethylbenzene	No information	No information	
101-68-8	4,4'-methylenediphenyl diisocyanate	>1000 mg/l	No information	>1000 mg/l
32055-14-4	oligomeric mdi: oligimeric reaction products of formaldehyde with analine and phosgene	No information	No information	No information
5873-54-1	diphenylmethane-2,4'-diisocyanate	>1000 mg/l	>1640 mg/l	>1000 mg/l
108-88-3	toluene	No information	No information	
2536-05-2	2,2'-methylenediphenyl diisocyanate	>1000 mg/l	>1640 mg/l	>1000 mg/l

Further Ecological Information

Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

CAS-No.	Name According to EEC
67815-87-6	prepolymer based on aromatic isocyanate

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

European Waste Code:	No Information
Packaging Waste Code:	150110

14. TRANSPORT INFORMATION

14.1	UN number	1866
14.2	UN proper shipping name	Resin Solution, flammable
	Technical name	Not applicable
14.3	Transport hazard class(es)	3
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	III
14.5	Environmental hazards	3
14.6	Special precautions for user	Not applicable
	EmS-No.:	F-E S-E
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable

15. REGULATORY INFORMATION

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

National Regulations:

Denmark Product Registration Number:	Not available
Danish MAL Code:	Not available
Danish MAL Code - Mixture:	Not available
Sweden Product Registration Number:	Not available
Norway Product Registration Number:	Not available
WGK Class:	Not available
Covered by Directive 2012/18/EC (Seveso III):	Not applicable
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	Not applicable

15.2 Chemical Safety Assessment:
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. OTHER INFORMATION

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.