

Safety Data Sheet

PU-20 LIQUID COATING

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

1.1. Product identifier

Trade name SIGnature PU-20 Liquid Coating
Stock codes 10585093 (Part 1)

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

Use One component water proofing and protection elastomeric material, based on polyurethane resin for the building industry.

1.3. Details of the supplier of the safety data sheet

Company identification SIG Roofing Design Technology
Mannheim House
Gelders Hall Road, Shepshed
Leicestershire LE12 9NH
Tel: 08445 766 760

1.4. Emergency telephone number

08445 766 760

2 Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : R10

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

Health hazards : Skin irritation - Category 2 - Warning (CLP : Skin Irrit. 2) H315
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning
(CLP : STOT RE 2) H373
Physical hazards : Flammable liquids - Category 3 - Warning (CLP : Flam. Liq. 3) H226

2 Hazards identification (Continued)

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

R Phrase(s)	: R10 : Flammable.
S Phrase(s)	: S2 : Keep out of the reach of children. S23 : Do not breathe spray. S40 : To clean the floor and all objects contaminated by this material, use xylene. S51 : Use only in well-ventilated areas.
Contains	: <<Contains isocyanates. See information supplied by the manufacturer>>.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words	: Warning
Hazard statements	: H226 : Flammable liquid and vapour. H319 : Causes serious eye irritation. H315 : Causes skin irritation. H373 : May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General	: P101 : If medical advice is needed, have product container or label at hand. P102 : Keep out of reach of children. P103 : Read label before use.
Prevention	: P280 : Wear protective gloves, protective clothing, eye protection, face protection. P210 : Keep away from heat, sparks, open flames or hot surfaces - No smoking. P233 : Keep container tightly closed. P240 : Ground/bond container and receiving equipment. P241 : Use explosion-proof electrical, ventilating, lighting, ..., equipment. P260 : Do not breathe dust, fume, gas, mist, vapours, spray. P264 : Wash thoroughly after handling.
Response	: P321 : Specific treatment (see on this label). P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378: In case of fire: Use all extinguishing media for extinction. P302+P352: IF ON SKIN : Wash with plenty of soap and water. P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P314: Get medical advice if you feel unwell. P332+P313: If skin irritation occurs : Get medical advice. P363: Wash contaminated clothing before reuse.
Storage	: P403+P235 : Store in well-ventilated place. Keep cool.
Disposal considerations	: P501 : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Contains	: EUH204: Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3 Composition/information on ingredients

Substance / Preparation : Preparation.
Hazardous component(s) : This product is hazardous.

SUBSTANCE NAME	CONTENTS	CAS NO	EC NO	ANNEX NO	REACH REF.	CLASSIFICATION
Xylene	: < 12 %	1330-20-7	215-535-7	601-022-00-9	----	R10 Xn; R20/21-65 Xi; R36/37/38 ----- Asp. Tox 1 _ H304 Flam. Liq. 3 _ H226 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332 Eye Irrit. 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335 STOT RE 2 _ H373

4 First aid measures

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest.
Skin contact : Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation occurs : Specific treatment (see on this label). Get medical advice. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
Eye contact : If eye irritation persists : Get medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
Ingestion : Do not induce vomiting. Obtain emergency medical attention.

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

Symptoms relating to use : Causes serious eye irritation. Causes skin irritation.

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

General information : Never give anything by mouth to an unconscious person.
If you feel unwell, seek medical advice (show the label where possible).

5 Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Water spray. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Flammable class : Flammable liquid and vapour.
Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders : Equip cleanup crew with proper protection. Ventilate area.
- Technical measures : Use special care to avoid static electric charges. Eliminate every possible source of ignition. No naked lights. No smoking.
- Technical measures : Remove ignition sources. No naked lights. No smoking.

6.2. Environmental precautions

- Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spills and put it into appropriated container.

6.4. Reference to other sections

- See section 8. Exposure controls/personal protection.

7 Handling and storage

7.1. Precautions for safe handling

- Technical protective measures : Use explosion-proof electrical, ventilating, lighting, . . . , equipment. Use only non-sparking tools. Proper grounding procedures to avoid static electricity should be followed. Provide good ventilation in process area to prevent formation of vapour.
- Handling : Wash thoroughly after handling. Take precautionary measures against static discharge. Handle empty containers with care because residual vapours are flammable.
- Special precautions : In use, may form flammable vapour-air mixture. No naked lights. No smoking. Store and handle as though always a serious potential fire/explosion and health hazard exists. Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep container tightly closed. Ground/bond container and receiving equipment. Keep only in the original container in a cool, well ventilated place. Keep in fireproof place.
- Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

- Specific end use(s) : None.

8 Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Personal protection



- Personal protection : Avoid all unnecessary exposure.
- Respiratory protection : Where excessive vapour may result, wear approved mask.
- Hand protection : In case of repeated or prolonged contact wear gloves.
- Skin protection : Wear suitable protective clothing.
- Eye protection : Chemical goggles or safety glasses.
- Others : When using, do not eat, drink or smoke.

9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Viscous liquid
Colour	: White, grey, red, etc.
Odour	: Characteristic
Odour threshold	: No data available
pH value	: Not applicable
Melting point/freezing point	: No data available
Decomposition point [°C]	: No data available
Critical temperature [°C]	: No data available
Auto-ignition temperature [°C]	: No data available
Flash point [°C]	: 42
Initial boiling point [°C]	: No data available
Final boiling point [°C]	: No data available
Evaporation rate	: No data available
Acid/alkali reserve [g NaOH/100g]	: No data available
Explosion limits - lower [%]	: No data available
Explosion limits - upper [%]	: No data available
Vapour pressure mm/Hg	: No data available
Vapour density	: No data available
Density [g/cm ³]	: 1.3-1.4
Solubility in water [% weight]	: No data available
Solubility in water	: Insoluble
Log Pow octanol / water at 20°C	: No data available
Solubility	: Organic solvents
Viscosity at 20°C [mPa.s]	: 4500-7500
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

10 Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Extremely high or low temperatures. Direct sunlight. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. May release flammable gases.

11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not established.
Corrosion	: Not established.
Irritation	: Causes serious eye irritation. Causes skin irritation.
Sensitization	: Not established.
Mutagenicity	: Not established.
Carcinogenicity	: Not established.
Toxic for reproduction	: Not established.
STOT-single exposure	: Not established.
STOT-repeated exposure	: Not established.
Aspiration hazard	: Not established.

12 Ecological information

12.1. Toxicity

Toxicity information	: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
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12.2. Persistence - degradability

Persistence - degradability	: No data available.
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12.3. Bioaccumulative potential

Bioaccumulative potential	: No data available.
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12.4. Mobility in soil

Log Pow octanol / water at 20°C	: No data available.
Mobility in soil	: Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	: Not applicable.
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12.6. Other adverse effects

Environmental precautions	: Avoid release to the environment.
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13 Disposal considerations

13.1. Waste treatment methods

General	: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Avoid release to the environment.
Special precautions	: Handle empty containers with care because residual vapours are flammable.

14 Transport information

14.1. Land transport (ADR-RID)

General information	: NOT SUBJECT TO THE PROVISIONS OF ADR - The product is packed in receptacles of less than 450 litres capacity - Exempted according to 2.2.3.1.5 (Viscous substance exemption)
Proper shipping name	: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)
UN N°	: 1139
H.I. nr	: 30
ADR - Class	: 3
Labelling - Transport	: 3



14 Transport information (Continued)

14.1. Land transport (ADR-RID)

ADR - Classification code	: F1
ADR - Group	: III
ADR - Packing instructions	: P001 R001 LP001
ADR - Limited Quantity	: 5 L
ADR - Tunnel code	: D/E



14.2. Sea transport (IMDG) [English only]

General information	: NOT SUBJECT TO THE PROVISIONS OF IMDG CODE FOR THE MARKING, LABELLING AND TESTING OF PACKAGES IN CHAPTERS 4.1, 5.2, AND 6.1. - The product is packed in receptacles not exceeding 30 L capacity - The following statement shall be included in the transport document: "Transport in accordance with 2.3.2.5 of the IMDG Code."
Proper Shipping Name	: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)
UN N°	: 1139
IMO - IMDG - Class or division	: 3
IMO - IMDG - Packing group	: III
IMO - IMDG - Packing instructions	: P001 LP01
IMO - IMDG - Limited quantities	: 5 L
IMO - IMDG - Marine pollution	: No
EMS - Nr	: F-E S-E

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)
UN N°	: 1139
IATA - Class or division	: 3
IATA - Packing group	: III
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 355
- Passenger and Cargo - Maximum Quantity/Packing	: 60 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 366
- Cargo only - Maximum Quantity/Packing	: 220 L
IATA - Limited Quantities	: 10 L
ERG-Nr	: 3L

15 Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.

15.2. Chemical safety assessment

Chemical safety assessment	: It has not been carried out.
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16 Other information

Revision	: Revision - See : *
Abbreviations and acronyms	: vPvB: very persistent and very bioaccumulative PBT: persistent, bioaccumulative and toxic.
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (section 3)	R10 : Flammable. R20/21 : Harmful by inhalation and in contact with skin. R36/37/38 : Irritating to eyes, respiratory system and skin. R65 : Harmful : may cause lung damage if swallowed.
List of full text of H-statements in section 3	H226 : Flammable liquid and vapour. H304 : May be fatal if swallowed and enters airways. H312 : Harmful in contact with skin. H315 : Causes skin irritation. H319 : Causes serious eye irritation. H332 : Harmful if inhaled. H335 : May cause respiratory irritation. H373 : May cause damage to organs through prolonged or repeated exposure.
Further information	: None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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