

## Safety Data Sheet

# PU-10 LIQUID COATING

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

### 1.1. Product identifier

Trade name                      SIGnature PU-10 Liquid Coating  
Stock codes                      10571860

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

Use                                      Novel, all weather rapid curing, single component polyurethane liquid membrane for waterproofing and protection based on Humidity-Activated-Accelerator, Technology  
<<FOR PROFESSIONAL USERS ONLY>>

### 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  
   Xn; R20/21  
   R43

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

Health hazards                      : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332  
   Skin irritation - Category 2 - Warning (CLP : Skin Irrit. 2) H315  
   Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319  
   Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317  
   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 Not classified.

## 2 Hazards identification (Continued)

### 2.2. Label elements

#### Labelling EC 67/548 or EC 1999/45

##### Symbol(s)



Symbol(s)	: Xn : Harmful
R Phrase(s)	: R10 : Flammable. R20/21 : Harmful by inhalation and in contact with skin. R43 : May cause sensitization by skin contact.
S Phrase(s)	: S2 : Keep out of the reach of children. S23 : Do not breathe the gas, fumes, vapours, spray. S24 : Avoid contact with skin. S36/37 : Wear suitable protective clothing and gloves. S40 : To clean the floor and all objects contaminated by this material, use xylene. S46 : If swallowed seek medical advice immediately and show this container or label. S51 : Use only in well-ventilated areas.
Contains	: Xylene - 1,6-hexanediyl-bis (2-(2-(1-ethylpentyl)-3-oxazolidinyl) ethyl) carbamate << 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. H317 : May cause an allergic skin reaction. H332 : Harmful if inhaled. 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. P271 : Use only outdoors or in a well-ventilated area. P272 : Contaminated work clothing should not be allowed out of the workplace.
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. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P302+P352: IF ON SKIN : Wash with plenty of soap and water.

## 2 Hazards identification (Continued)

	P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
	P312 : Call a POISON CENTER or doctor if you feel unwell.
	P333+P313 : If skin irritation or rash 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	: Xylene - 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl) ethyl) carbamate
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
<b>Xylene</b>	: <= 13.5	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
<b>1,6-hexanediyl-bis (2-(2-(1-ethylpentyl) -3-oxazolidinyl)ethyl) carbamate</b>	: <= 2.5 %	140921-24-0	411-700-4	616-079-00-5	----	R43 ----- Skin Sens. 1_ H317

## 4 First aid measures

### 4.1. Description of first aid measures

Inhalation	: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment is urgent.
Skin contact	: IF ON SKIN : Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs : Get medical advice. Specific treatment.
Eye contact	: If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Get medical advice.
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. May cause an allergic skin reaction. May cause respiratory irritation.
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### 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).
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## 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. Wash thoroughly after handling. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Take precautionary measures against static discharge. Handle empty containers with care because residual vapours are flammable. Avoid breathing dust, fume, gas, mist, vapours, spray.  
Special precautions : No naked lights. No smoking. In use, may form flammable vapour-air mixture. 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 : Ground/bond container and receiving equipment. Keep container tightly closed. Keep in fireproof place. Keep only in the original container in a cool, well ventilated place.  
Storage - away from : Heat sources. Direct sunlight, Strong bases. Strong acids. Sources of ignition.

### 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	: In case of insufficient ventilation, wear suitable respiratory equipment. Where excessive vapour may result, wear approved mask.
Hand protection	: In case of repeated or prolonged contact wear gloves. Wear protective 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	: Liquid
Colour	: Grey (white is available to order)
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
Flammability (solid, gas)	: No data available
Flash point [°C]	: 35
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 <sup>3</sup> ]	: 1.41-1.44
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]	: 1500-3000
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 Stability and reactivity (Continued)

### 10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : May release flammable gases. Fumes.

## 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.  
Corrosion : Not established.  
Irritation : Causes serious eye irritation. Causes skin irritation.  
Sensitization : May cause an allergic skin reaction.  
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.

### 12.2. Persistence - degradability

Persistence - degradability 12.3. : No data available.

### 12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

### 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.

### 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

## 13 Disposal considerations

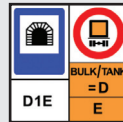
### 13.1. Waste treatment methods

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 : 3
ADR - Class	: 3
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	: 3 L

## 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	: PBT: persistent, bio accumulative and toxic. vPvB: very persistent and very bio accumulative
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. R43 : May cause sensitization by skin contact. 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. H317 : May cause an allergic skin reaction. 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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