

# MATERIAL SAFETY DATA SHEET



## Solseal Primer PU4

Revision Date 27.07.2016

Version 3.0

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

#### 1.1. Product identifier

Trade name : SOLSEAL PRIMER PU4  
Product code : 40-2-2

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

Use : Polyurethane coating for chemical protection, sealing and waterproofing  
, <<FOR PROFESSIONAL USERS ONLY>>

#### 1.3. Details of the supplier of the safety data sheet

Company identification : Solco Building Products  
Units 51-52 Portmanmoor Road Industrial Estate  
Ocean Park, Cardiff, CF24 5HB  
enquiries@solco.co.uk

#### 1.4. Emergency telephone number

Phone nr : 0845 450 9766 [ Business hours only ]

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

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

Classification : R10  
Carc. Cat. 3; R40  
Xn; R20/21  
Xi; R36/37/38  
Xn ; R42/43

##### 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  
Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334  
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317  
Carcinogenicity - Category 2 - Warning (CLP : Carc. 2) H351  
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -  
Category 3 - Warning (CLP : STOT SE 3) H335  
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

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### SECTION 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.

R36/37/38 : Irritating to eyes, respiratory system and skin.

R40 : Limited evidence of a carcinogenic effect.

R42/43 : May cause sensitization by inhalation and skin contact.

S Phrase(s)

: S2 : Keep out of the reach of children.

S23 : Do not breathe spray.

S25 : Avoid contact with eyes.

S36/37 : Wear suitable protective clothing and gloves.

S40 : To clean the floor and all objects contaminated by this material, use xylene.

S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).

S51 : Use only in well-ventilated areas.

S63 : In case of accident by inhalation : remove casualty to fresh air and keep at rest.

Contains

: Xylene - methylenediphenyl diisocyanate isomers and homologues , <<Contains isocyanates. See information supplied by the manufacturer>>.

##### Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Danger

Hazard statements

: H226 : Flammable liquid and vapour.

H351 : Suspected of causing cancer.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 : May cause an allergic skin reaction.

H332 : Harmful if inhaled.

H335 : May cause respiratory 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.

P201: Obtain special instructions before use.

• Prevention

: P280: Wear eye protection, face protection.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

P285: In case of inadequate ventilation wear respiratory protection.

P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.

P233: Keep container tightly closed.

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### SECTION 2. Hazards identification (continued)

- 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.  
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P308+P313: If exposed or concerned : get medical advice.  
P312: Call a POISON CENTER or doctor if you feel unwell.  
P333+P313: If skin irritation or rash occurs : Get medical advice.  
P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER or doctor.  
P363: Wash contaminated clothing before reuse.
- **Storage** : P403+P235: Store in well-ventilated place. Keep cool.  
P403+P233: Store in well-ventilated place. Keep container tightly closed.  
P405: Store locked up.
- **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 - methylenediphenyl diisocyanate isomers and homologues  
**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.

### SECTION 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	= 50 %	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
methylenediphenyl diisocyanate isomers and homologues	< 5 %	9016-87-9	-----	-----	----	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43 ----- Resp. Sens. 1 _ H334 Acute Tox. 4 (inhal) _ H332 Carc. 2 _ H351 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315

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### SECTION 3. Composition/information on ingredients (continued)

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STOT SE 3 \_ H335  
Skin Sens. 1 \_ H317  
STOT RE 2 \_ H373

### SECTION 4. First aid measures

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#### 4.1. Description of first aid measures

- Inhalation** : If experiencing respiratory symptoms : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Rinse skin with water/shower. Get medical advice. Specific treatment (see on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs : Remove/Take off immediately all contaminated clothing.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : 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** : Danger of serious damage to health by prolonged exposure through inhalation.  
Suspected of causing cancer.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction. May cause respiratory 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).

### SECTION 5. Fire-fighting measures

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#### 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.

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### SECTION 5. Fire-fighting measures (continued)

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

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### SECTION 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.

**Special precautions** : 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

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### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

**Technical protective measures** : Use only non-sparking tools. Use explosion-proof electrical, ventilating, lighting, ..., equipment.  
Proper grounding procedures to avoid static electricity should be followed.  
Provide good ventilation in process area to prevent formation of vapour.

**Handling** : Obtain special instructions before use. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling.  
Handle empty containers with care because residual vapours are flammable. Avoid breathing dust, fume, gas, mist, vapours, spray.

**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

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### SECTION 7. Handling and storage (continued)

- Storage** : Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed. 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.

### SECTION 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. (i.e type A1 according to standard EN 14387).
  - **Hand protection** : In case of repeated or prolonged contact wear gloves. (Council Directive 89/686/EEC).
  - **Skin protection** : Wear suitable protective clothing.
  - **Eye protection** : Chemical goggles or safety glasses.
  - **Others** : When using, do not eat, drink or smoke.

### SECTION 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- Physical state** : Liquid.
- Colour** : Transparent
- 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]** : 28
- Initial boiling point [°C]** : No data available.

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### SECTION 9. Physical and chemical properties (continued)

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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> ]	: 0.98
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]	: 100
Explosive properties	: No data available.
Oxidising properties	: No data available.

#### 9.2. Other information

### SECTION 10. Stability and reactivity

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#### 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 : 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.

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### SECTION 11. Toxicological information

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#### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: Harmful in contact with skin. Harmful if inhaled.
<b>Corrosion</b>	: Not established.
<b>Irritation</b>	: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
<b>Sensitization</b>	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
<b>Mutagenicity</b>	: Not established.
<b>Carcinogenicity</b>	: Suspected of causing cancer.
<b>Toxic for reproduction</b>	: Not established.
<b>STOT-single exposure</b>	: Not established.
<b>STOT-repeated exposure</b>	: Not established.
<b>Aspiration hazard</b>	: Not established.

### SECTION 12. Ecological information

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#### 12.1. Toxicity

**Toxicity information** : The product has been not fully tested. The calculated risc has been done under the requirements of the EU regulations.

#### 12.2. Persistence - degradability

**Persistence - degradability** : No data available.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : No data available.

#### 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.



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### SECTION 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.

### SECTION 14. Transport information

#### 14.1. Land transport (ADR-RID)

- 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



- 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]

- 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]

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### SECTION 14. Transport information (continued)

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

### SECTION 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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### SECTION 16. Other information

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
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 (heading 3)	: R10 : Flammable. R20 : Harmful by inhalation. R20/21 : Harmful by inhalation and in contact with skin. R36/37/38 : Irritating to eyes, respiratory system and skin. R40 : Limited evidence of a carcinogenic effect. R42/43 : May cause sensitization by inhalation and skin contact. R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.

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### SECTION 16. Other information (continued)

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**List of full text of H-statements in section 3**

R65 : Harmful : may cause lung damage if swallowed.  
: 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.  
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 : May cause respiratory irritation.  
H351 : Suspected of causing cancer.  
H373 : May cause damage to organs through prolonged or repeated exposure.

**Further information**

: None.

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

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