



1. Product Identification

Trade Name: UNISEAL PRIMER P1 & P2

Description: Moisture curing solvent borne polyurethane primer.

2. Composition / Information on Ingredients

Ingredient	CAS Number	Conc. (w/w)	Classification	R. Phrases
Polymeric Diphenyl-methane diisocyanate	9016-87-9	10-30%	Xn	20,36/37/38,42/43
Xylene	1330-20-7	30-60%	F,Xn	10,20/21,38

3. Hazard Identification

Flammable. Harmful by inhalation and in contact with skin. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

4. First Aid Measures

Inhalation: In case of drowsiness or sickness remove to fresh air, keep patient warm and at rest. If unconscious, turn to the recovery position. Seek medical assistance.

Skin Contact: NOTE: Effects may be delayed. Promptly remove contaminated clothing and wash the affected area with plenty of soap and water to ensure all traces of product are removed, then rinse thoroughly. Any contaminated clothing must be thoroughly cleaned before re-using. Seek medical advice if irritation persists.

Eye Contact: Flush with copious amounts of clean water for at least 15 minutes, with the eye lids held open. Seek medical attention.

Ingestion: Wash out mouth with water. Keep patient at rest and obtain medical attention. DO NOT INDUCE VOMITING.

5. Fire Fighting Measures

Suitable Extinguisher Media: Alcohol-resistant foam, dry powder, carbon dioxide or sand.

Unsuitable Extinguishing Media: Water.

Exposure Hazards: May give off toxic fumes if heated or involved in a fire, including carbon dioxide, carbon monoxide and hydrogen cyanide.

Special Protective Equipment: Full face, positive pressure, self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions:** Wear protective equipment as specified in Section 8. Do not eat, drink or smoke. Avoid contact with skin and eyes. Eliminate all ignition sources.
- Environmental Precautions:** Eliminate all ignition sources. Keep people and animals away. Prevent entry into drains, sewers and watercourses. If spillage enters drains leading to sewerage works inform the local water company. If spillage enters rivers or watercourses inform the Environment Agency.
- Spillages:** Cordon off area. Absorb/contain spillage using inert absorbent granules, sand or earth. Transfer collected material to heavy-duty plastic/steel drums and keep in a well ventilated place for subsequent safe disposal. See Section 13.

7. Handling and Storage

- Handling:** No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Avoid contact with water, alcohols, amines and other materials that may react with isocyanates. Refer to Sections 6 and 8 if exposure to product is possible. Wash thoroughly with soap and water before eating, drinking or smoking, and after work.
- Storage:** Store in original containers in a cool, dry and well ventilated area away from heat, ignition sources or open flame. Do not store near acids. Isocyanates react with water to liberate carbon dioxide. Any ingress of moisture into an isocyanate container, whether full or empty, can lead to a pressure build-up and subsequent explosion.

8. Exposure Controls / Personal Protection

- Occupational Exposure Standards:** Isocyanates (as -NCO):
8 Hour TWA 0.02mg/m³, 15 min STEL 0.07mg/m³
MEL (Sens).
These exposure limits must not be exceeded at any time during the exposure period.
Xylene: 8 Hour TWA 50ppm, 15min STEL 100ppm
OES (Skin).
- Engineering Control Measures:** Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection and may include physical containment and good ventilation.
- Respiratory Protection:** If levels of isocyanate or solvent exceed the above limits use an approved respirator fitted with an appropriate gas cartridge (organic substance). All

items must conform to EN149 and should be suitable for the levels of contamination present in the workplace.

Hand Protection:	Wear Neoprene or Nitrile gloves or gauntlets. These must be manufactured to EN374. The material breakthrough time should be stated by the glove manufacturer, and must be observed at all times.
Eye Protection:	If splashing of the product is likely chemical resistant goggles conforming to BS 2092 should be worn.
Body Protection:	Wear suitable impervious, chemical resistant overalls.
Foot Protection:	Wear chemical resistant safety footwear.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance:	Brown liquid	Boiling Point:	Base	N/D
Odour:	Aromatic	Vapour Pressure @ 20°C:	(Air =1)	N/D
pH:	N/A	Evaporation Rate (Butyl Acetate = 1):		N/D
Flash Point:	29°C	Flammable Limits in Air:	Upper: Lower:	N/D N/D
Solubility:	Immiscible in water (reacts)	Autoignition Temperature:		N/D
Flammability:	Flammable liquid			
Specific Gravity:	1.0			

10. Stability and Reactivity

Stability:	Stable under normal conditions (see Section 7). Avoid heat, sparks, flames and moisture.
Materials to Avoid:	Alcohols, glycols, acids (organic and inorganic), oxidising agents, amines, water, steam, inorganic alkalis.
Hazardous Decomposition Products:	Toxic gases/vapours/fumes of: Carbon dioxide(CO ₂). Carbon monoxide (CO). Oxides of: Nitrogen. Hydrogen cyanide (HCN). Nitrous gases (NO _x).

11. Toxicological Information

There is no data available on the product itself.
Contains isocyanates which may cause allergic reaction and irritation of the respiratory system. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
When assessing exposure levels the possibility of absorption of the solvent contained in this product through the skin should be taken into account.

Inhalation:	Harmful by inhalation. May cause sensitisation by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.
Eye Contact:	Irritating to eyes.
Skin Contact:	Harmful in contact with skin. Irritating to skin. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact. Acts as a defatting agent on skin. May cause cracking of skin and eczema.
Ingestion:	May cause discomfort if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.
Health Warnings:	Can be hazardous when inhaled and/or following skin contact. INHALATION. May cause allergic reaction and irritation of the respiratory system. Prolonged inhalation of high concentrations may damage the respiratory system. Pulmonary sensitiser and severe pulmonary irritant. Recognised allergen. SKIN CONTACT. Irritating to skin. May cause sensitisation by skin contact. EYE CONTACT. May cause severe irritation to eyes. INGESTION. May cause discomfort. EYES, NOSE & MOUTH. May cause temporary blindness and severe eye damage. RESPIRATORY SYSTEM. Repeated exposure may cause chronic upper respiratory irritation. Asthma, pulmonary sensitisation. DIGESTIVE & INTERNAL SYSTEM. Swallowing concentrated chemical may cause severe internal injury.
Routes of Entry:	Inhalation, ingestion, skin and/or eye contact.
Target Organs:	Respiratory system, lungs.
Medical Symptoms:	EYES & MUCOUS MEMBRANES. Irritation, burning, lacrimation, blurred vision after liquid splash. RESPIRATORY SYSTEM. Severe pulmonary irritation. General respiratory distress, unproductive cough. SKIN. Severe skin irritation. DIGESTIVE SYSTEM. Nausea, vomiting, severe abdominal pain.
Medical Considerations:	Chronic respiratory and obstructive airway diseases. Skin disorders and allergies. Employees ought to be examined by physician prior to work with isocyanates. Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long-term and repeated use of isocyanates.

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12. Ecological Information

There is no data available on the product itself.

Hazardous for water. Do not allow the product to reach ground water, water bodies or sewage systems. Must not reach sewage water or drainage ditch undiluted or unneutralised. The liquid product may be neutralised with a mixture of ammonia solution (190g/ltr), water and ethanol.

13. Disposal Considerations

Dispose of used containers and un-cured product as hazardous waste, in accordance with all applicable local and national regulations, and in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14. Transport Information

UN Number:	1866	Packaging Group:	III
ROAD		AIR	
ADR Class:	3	Air Transport Number:	3
ADR Hazard Number:	30	Packaging Instruction:	310
SEA			
IMDG Class:	3.3		
IMDG Page Number:	3379		
Marine Pollutant:	No		

Proper Shipping Name: Resin solution, flammable.

15. Regulatory Information

EU Classification and Labelling Particulars:

Designated Name: UNISEAL PRIMER P1 & P2

Classification: Flammable and Harmful - Contains Xylene & Isocyanates, see information supplied by the manufacturer.

Indication(s) of Danger: F, Xn

Risk and Safety Phrases:

R10:	Flammable.
R20/21:	Harmful by inhalation and in contact with skin.
R36/37/38:	Irritating to eyes, respiratory system and skin.
R42/43:	May cause sensitisation by inhalation and skin contact.
S23:	Do not breathe vapour or spray.
S36/37:	Wear suitable protective clothing and gloves.
S38:	In case of insufficient ventilation, wear suitable respiratory equipment.
S45:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60:	This material and its container must be disposed of as hazardous waste.

UK Guidance Publications: EH40; Occupational Exposure Limits, HSE. Revised annually.
EH26; Occupational Skin Diseases - Health and Safety Precautions, HSE.

UK Legislation: Health and Safety at Work, etc Act, 1974, and relevant Statutory Provisions.

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Control of Substances Hazardous to Health Regulations, 1999.
The Manual Handling Operations Regulations, 1992.
The Personal Protective Equipment at Work Regulations,
1992.
Chemicals (Hazard Information and Packaging for Supply)
Regulations, 2002 - CHIP 3.

16. Other Information

Full Text of R-Phrases Referred to above:

R10:	Flammable.
R20:	Harmful by inhalation.
R21:	Harmful in contact with skin.
R36:	Irritating to eyes.
R37:	Irritating to respiratory system.
R38:	Irritating to skin.
R42/43:	May cause sensitisation by inhalation and skin contact.

Training Advice: Do not use unless trained to do so. Refer to the Technical Data Sheet for the product.

Recommended Uses: For professional use only. This product is designed for use as a primer for porous surfaces.

Further Information: This Safety Data Sheet was compiled in accordance with EU Directives 67/548/EEC and 1999/45/EC. Reference was also made to the above legislation and guidance publications.

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Changes in this Version: All sections revised due to formulation changes.

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Disclaimer: The information in this document is offered for general health and safety guidance only and is not intended to be a definitive source of advice, nor does it constitute a risk assessment, for which the user is responsible. All information provided in this document is believed to be accurate to the best of our knowledge. Users of the products referred to should observe the recommendations, conditions and instructions relating to any relevant product label, usage information, consent or approval in force at the time. Further and more specific information may be obtained from the supplier on request.

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