

Material: Techsil PU23930 Pearl - Resin

SDS Revision: 1

Revision Date: 8th February 2012

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product Name:** Techsil PU23930 Pearl - Resin
- 1.3 Supplier:** Techsil Ltd
34 Bidavon Industrial Estate
Waterloo Road
Bidford on Avon
Warwickshire
B50 4JN
TEL: +44(0)1789 773232
FAX: +44(0)1789 774239
EMAIL: sales@techsil.co.uk
- 1.4 Emergency Telephone:** +44 (0)7971 228794

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture:**
Classification under CHIP: This product has no classification under CHIP.
- 2.2 Label Elements:**
Label elements under CHIP:
Hazard symbols: No significant hazard.
- 2.3 Other Hazards:**
This substance is not identified as a PBT substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**
- 3.2 Mixtures:**

SECTION 4: FIRST AID MEASURES

- 4.1 Description of First Aid Measures:**
Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water.
Inhalation: Consult a doctor.
- 4.2 Most Important Symptoms and Effects, both Acute and Delayed:**
Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.
- 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:**
Eye bathing equipment should be available on the premises.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing Media:**
Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- 5.2 Special Hazards Arising from the Substance or Mixture:**
In combustion emits toxic fumes.
- 5.3 Advice for Firefighters:**
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental Precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and Material for Containment and Cleaning-Up:

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to Other Sections:

Refer to section 8 of SDS.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

7.2 Conditions for Safe Storage, Including and Incompatibilities:

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

7.3 Specific End Use(s):

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Not applicable.

8.2 Exposure Controls:

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: No special requirement.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

State: Liquid

9.2 Other Information:

Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Stable under recommended transport or storage conditions.

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions:

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to Avoid:

Heat.

10.5 Incompatible Materials:

Strong oxidising agents. Strong acids.

10.6 Hazardous Decomposition Products:

In combustion emits toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Not applicable.

Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	There may be irritation and redness.
Ingestion:	There may be irritation of the throat.
Inhalation:	No symptoms.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Not applicable.

12.2 Persistence and Degradability:

Biodegradable.

12.3 Bioaccumulative Potential:

No bioaccumulation potential.

12.4 Mobility in Soil:

Readily absorbed into soil.

12.5 Results of PBT and vPvB Assessment:

This substance is not identified as a PBT substance.

12.6 Other Adverse Effects:

Negligible ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number:

This product does not require a classification for transport.

SECTION 15: REGULATORY INFORMATION

15.2 Chemical Safety Assessment:

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

DISCLAIMER:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Material: Techsil PU23930 Pearl - Hardener

SDS Revision: 1

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Name: Techsil PU23930 Pearl - Hardener

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 Techsil Ltd
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 Waterloo Road
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 FAX: +44(0)1789 774239
 EMAIL: sales@techsil.co.uk

1.4 Emergency Telephone: +44 (0)7971 228794

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Classification under CHIP: Xn: R20; Xi: R37; Sens.: R43
 Most important adverse effects: Harmful by inhalation. Irritating to respiratory system. May cause sensitisation by skin contact.

2.2 Label Elements:

Label elements under CHIP:
 Hazard symbols:

Harmful.



Risk phrases:
 R20: Harmful by inhalation.
 R37: Irritating to respiratory system.
 R43: May cause sensitisation by skin contact.

Safety phrases:
 S23: Do not breathe fumes.
 S24: Avoid contact with skin.
 S37: Wear suitable gloves.

Precautionary phrases: Contains hexamethylene-di-isocyanate. May produce an allergic reaction.

2.3 Other Hazards:

This substance is not identified as a PBT substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

3.2 Mixtures:

Hazardous ingredients:
 HEXAMETHYLENE DIISOCYANATE OLIGOMERS

EINECS	CAS	CHIP Classification	CLP Classification	Percent
500-060-2	28182-81-2	Xn: R20; Xi: R37; Sens.: R43	-	>90%
HEXAMETHYLENE-DI-ISOCYANATE				
212-485-8	822-06-0	T: R23; Xi: R36/37/38; Sens.: R42/43	-	<1%

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2 Most Important Symptoms and Effects, both Acute and Delayed:

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

Not applicable.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special Hazards Arising from the Substance or Mixture:

In combustion emits toxic fumes.

5.3 Advice for Firefighters:

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental Precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and Material for Containment and Cleaning-Up:

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to Other Sections:

Refer to section 8 of SDS.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for Safe Storage, Including and Incompatibilities:

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

7.3 Specific End Use(s):

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control Parameters:**

Hazardous ingredients:

HEXAMETHYLENE-DI-ISOCYANATE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min STEL
UK	0.02 mg/m ³	0.07 mg/m ³	-	-

8.2 Exposure Controls:

Engineering measures: Ensure there is sufficient ventilation of the area.
 Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.
 Hand protection: Impermeable gloves.
 Eye protection: Safety glasses. Ensure eye bath is to hand.
 Skin protection: Impermeable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties:**

State: Liquid
 Colour: Pale yellow
 Odour: Odourless
 Solubility in water: Reacts with water.
 Boiling point/range °C: >220
 Flash point °C: 168

9.2 Other Information:

Not applicable.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity:**

Stable under recommended transport or storage conditions.

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions:

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to Avoid:

Heat.

10.5 Incompatible Materials:

Strong oxidising agents. Strong acids.

10.6 Hazardous Decomposition Products:

In combustion emits toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects:**

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH	Hazardous: calculated
Irritation	INH	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

Skin contact: There may be irritation and redness at the site of contact.
 Eye contact: There may be irritation and redness. The eyes may water profusely.
 Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
 Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
 Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Not applicable.

12.2 Persistence and Degradability:

Biodegradable.

12.3 Bioaccumulative Potential:

No bioaccumulation potential.

12.4 Mobility in Soil:

Readily absorbed into soil.

12.5 Results of PBT and vPvB Assessment:

This substance is not identified as a PBT substance.

12.6 Other Adverse Effects:

Negligible ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number:

This product does not require a classification for transport.

SECTION 15: REGULATORY INFORMATION

15.2 Chemical Safety Assessment:

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Phrases used in s.2 and 3: R20: Harmful by inhalation.
R23: Toxic by inhalation.
R36/37/38: Irritating to eyes, respiratory system and skin.
R37: Irritating to respiratory system.
R42/43: May cause sensitisation by inhalation and skin contact.
R43: May cause sensitisation by skin contact.

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