



# Safety Data Sheet



Section 1 PRODUCT IDENTIFICATION	
Product Name:	ENDRUST® PSX CLEAR Part A
Synonyms:	Ultratec PSX Clear
Recommended Use:	Fast drying chemical resistant silicone acrylic urethane topcoat when catalysed with ENDRUST PSX CLEAR Part B
Supplier Information:	ENDRUST AUSTRALIA 23b Fairbrother Street Belmont WA 6104 Phone:(08) 9325 1399 <a href="http://www.endrust.com.au">www.endrust.com.au</a>
Contacts:	Endrust (08) 9325 1399    Poisons Information Centre 13 11 26
Section 2 HAZARD IDENTIFICATION	
Hazard Classification:	<p><b>DANGEROUS GOODS</b> according to the criteria of the ADG code</p> <p><b>HAZARDOUS CHEMICAL</b> according to the criteria of Safe Work Australia</p> <p>Flammable Liquids, Category 3</p> <p>Skin corrosion / Irritation, Category 2</p> <p>Specific target organ toxicity (single exposure), Category 3</p> <p>Label elements:</p> <p>Pictograms</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>Signal Word: <b>WARNING</b></p>
Hazard Statements:	<p>H226 Flammable liquid and vapour</p> <p>H315 Causes skin irritation</p> <p>H335 May cause respiratory irritation</p>
Precautionary Statements:	<p><i>GENERAL</i></p> <p>P101 If medical advice is needed, have product container or label at hand</p> <p>P102 Keep out of reach of children</p> <p>P103 Read label before use</p>

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	<p><b>PREVENTATIVE</b></p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces – No Smoking  P233 Keep container tightly closed  P240 Ground/bond container and receiving equipment  P241 Use explosion proof electrical/ventilation/lighting equipment  P242 Use only non-sparking tools  P243 Take precautionary measures against static discharge  P261 Avoid breathing mists/vapours/spray  P271 Use only outdoors or in a well-ventilated area  P264 Wash thoroughly after handling  P280 Wear protective gloves/eye protection/face protection</p> <p><b>RESPONSE</b></p> <p>P302+P352 IF ON SKIN: Wash with plenty of soap and water  P303+P361+ IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse  P353 Rinse skin with water/shower  P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  P312 Call a POISON CENTER or doctor/physician if you feel unwell  P332+P313 If skin irritation occurs: Get medical advice/attention  P362 Take off contaminated clothing and wash before reuse  P370+P378 In case of fire: Use foam/water spray/fog for extinction</p> <p><b>STORAGE</b></p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed  P403+P235 Store in a well-ventilated place. Keep cool  P405 Store locked up</p> <p><b>DISPOSAL</b></p> <p>P501 Dispose of contents/container in accordance with local regulations</p>
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## Section 3 COMPOSITION

Ingredient	CAS Number	Proportion
Xylene	1330-20-7	20-30%
1-Methoxy-2-Propyl Acetate	108-65-6	20-30%
Butyl Acetate	123-86-4	10-20%
Other Non-Hazardous Materials to 100%		

Note – product contains <0.1% benzene

Proportion is % weight per weight

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS)

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## Section 4 FIRST AID MEASURES

Poisons Information Centres in each State capital city can provide additional assistance for scheduled poisons.

### Description of necessary first aid measures

**Inhalation:** Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. Transport to nearest medical facility for additional treatment if necessary.

**Eye Contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.

**Ingestion:** If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

### Symptoms caused by

**Inhalation:** Breathing of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continuous inhalation may result in unconsciousness and death.

**Skin:** May include burning sensation and/or a dried/cracked appearance.

**Eye:** May include burning sensation, redness, swelling and/or blurred vision.

**Ingestion:** May include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever.

## Section 5 FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Foam, water spray or fog, carbon dioxide, dry chemical powder. Do not use water in a jet.

### Specific Hazards:

Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. Vapour is heavier than air, can spread along ground and distant ignition is possible.

### Fire Fighting Advice:

Class 3 Flammable liquid. On burning this product may emit toxic fumes. Heating can cause expansion or decomposition leading to violent rupture of containers. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or decomposition products.

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## Section 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled or released material. Shut off leaks, if possible, without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

### Environmental precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

### Methods and materials for containment and cleaning up

For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

## Section 7 HANDLING AND STORAGE

### Precautions for safe handling

Flammable product. Avoid breathing vapours. Handle and open containers with care in a well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment. Flameproof equipment necessary in area where chemical is being used. Vapours may accumulate in low or confined areas.

### Conditions for safe storage, including any incompatibilities

Bulk storage tanks should be banded. Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

## Section 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### National Exposure Limits.

No value has been assigned for this specific product by the National Occupational Health and Safety Commission (NOHSC) Worksafe Australia

However, exposure standards for constituents:

Material	TWA		STEL		Notices
	ppm	Mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Xylene	80	350	150	655	SK
1-Methoxy-2-Propyl Acetate	50	274	100	548	
Butyl Acetate	150	713	200	950	

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**TWA:**

The Time Weighted Average airborne concentrations over an eight-hour working day, for a five day working week over an entire working life.

**STEL:**

(Short Term Exposure Limit) The average airborne concentration over a fifteen minute period which should not be exceeded at any time during a normal eight-hour work day.

**SK Notice:**

Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

These exposure standards are guides to be used in the control of Occupational Health Hazards. All atmospheric contamination should be kept as low as is practicable.

Exposure standards should **NOT** be used as the defining line between safe and dangerous concentrations of

**Biological monitoring**

No biological limit allocated.

**Engineering controls**

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use. DO NOT enter confined spaces where vapour may have collected.

**Individual protection measures**

**Eye and face protection:** Wear safety goggles.

**Skin protection:** Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.

**Respiratory protection:** If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

**Thermal hazards:** Not applicable

## Section 9 PHYSICAL PROPERTIES

Appearance: Mobile clear liquid

Solubility: Insoluble in water

Odour:	Slightly sweet	Density @ 20°C:	~0.98* kg/lit
pH:	NAP	Flash point & Method:	~ 26°C Closed Cup
Vapour Pressure 20°C (mm Hg):	0.8-1.2**	Upper Explosive Limit (UEL):	~7.1%**
Vapour Density (Air = 1)	3.7**	Lower Explosive Limit (LEL):	~1.1%**
Initial Boiling Point & Range °C:	>136**	Ignition Temperature °C:	>432**
Freezing Point °C:	NAV	Percent Volatiles (by weight):	~ 65**%

\*For Clear gloss \*\*Based on Xylene  
NAP = Not Applicable, NAV = Not Available

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## Section 10 STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions of use.

### Chemical stability

Stable under normal conditions of use.

### Possibility of hazardous reactions

Stable under normal conditions of use.

### Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Do not pressurise, cut, weld or drill container.

### Incompatible materials

Strong oxidising agents.

### Hazardous decomposition products

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## Section 11 TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	Expected to be of low toxicity – for constituent Xylene: LD50 Oral (rat) > 2000 mg/kg LC50 Inhalation (rat, 4h) > 20 mg/l LD50 Dermal (rabbit) > 2000 mg/kg
<b>Skin corrosion/irritation:</b>	May cause moderate skin irritation. Prolonged contact may cause defatting of skin which can lead to dermatitis.
<b>Serious eye damage/irritation:</b>	Irritating to eyes.
<b>Respiratory or skin sensitisation:</b>	Not expected to be a sensitiser.
<b>Germ cell mutagenicity:</b>	Not expected to be mutagenic
<b>Carcinogenicity:</b>	Not expected to be carcinogenic.
<b>Reproductive toxicity:</b>	Does not impair fertility
<b>Specific Target Organ Toxicity (STOT) – single exposure:</b>	Inhalation of vapours or mists may cause irritation to the respiratory system.
<b>Specific Target Organ Toxicity (STOT) – repeated exposure:</b>	Central nervous system: repeated exposure affects the nervous system. Liver, kidneys: can cause damage
<b>Aspiration hazard:</b>	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

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## Section 12 ECOLOGICAL INFORMATION

### Ecotoxicity

For constituent **Xylene**:

Acute Toxicity – fish: Toxic, 1<LC/EC/IC 50 ≤ 10mg/l.

Acute Toxicity – invertebrates: Toxic, 1<LC/EC/IC 50 ≤ 10mg/l.

Acute Toxicity – algae: Toxic, 1<LC/EC/IC 50 ≤ 10mg/l.

Acute Toxicity – microorganisms Data not available

Chronic toxicity Data not available

### Persistence and degradability

Data not available.

### Bioaccumulative potential

Data not available.

### Mobility in soil

Data not available.

### Other adverse effects

Data not available.

## Section 13 DISPOSAL CONSIDERATIONS

Do not pour unwanted paint down the drain. Keep unwanted paint in sealed containers for disposal via special chemical waste collections. Empty paint containers should be left open in a well-ventilated area to dry out. When dry, recycle steel containers via steel can recycling programs. Disposal of empty paint containers via domestic recycling programs may differ between local authorities. Check with your local council first.

## Section 14 TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG7 Code) for transport by road or rail.

UN Number:	1263	HAZCHEM:	•3Y
UN Proper Shipping Name:	PAINT	Packaging Group:	III
Class and Sub Risk:	3 Flammable Liquid		

Special Precautions: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1) in bulk, poisonous gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) and radioactive substances (Class 7), however, exemptions may apply.

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## Section 15 REGULATORY INFORMATION

Hazardous according to Safe Work Australia

Poisons Schedule (Australia): *Not scheduled*

## Section 16 OTHER INFORMATION

### General:

Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular, how to safely handle and use the product in the workplace.



Since we cannot anticipate or control the conditions under which this product may be used or handled, each user must, prior to using or handling this product, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is required to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers, and is also available from the company upon request.

# Safety Data Sheet



Section 1 PRODUCT IDENTIFICATION	
Product Name:	ENDRUST® PSX CLEAR Part B
Synonyms:	Ultratect PSX Clear
Recommended Use:	Aliphatic Poly isocyanate curing agent for PSX CLEAR part A
Supplier Information:	ENDRUST AUSTRALIA 23b Fairbrother Street Belmont WA 6104 Phone:(08) 9325 1399 <a href="http://www.endrust.com.au">www.endrust.com.au</a>
Contacts:	<b>Endrust (08) 9325 1399</b> Poisons Information Centre <b>13 11 26</b>
Section 2 HAZARD IDENTIFICATION	
Hazard Classification:	<p><b>DANGEROUS GOODS</b> according to the criteria of the ADG code</p> <p><b>HAZARDOUS CHEMICAL</b> according to the criteria of Safe Work Australia</p> <p>Flammable Liquids, Category 3</p> <p>Acute toxicity, Inhalative, Category 4</p> <p>Sensitisation of the skin, Category 1</p> <p>Specific target organ toxicity (single exposure), Category 3</p> <p>Label elements:</p> <p>Pictograms</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">               FLAMMABLE         </div> <div style="text-align: center;">               IRRITANT         </div> </div> <p>Signal Word: <b>WARNING</b></p>
Hazard Statements:	<p>H226 Flammable liquid and vapour</p> <p>H332 Harmful if inhaled</p> <p>H317 May cause an allergic skin reaction</p> <p>H335 May cause respiratory irritation</p> <p>H336 May cause drowsiness or dizziness</p>
Precautionary Statements:	<p><b>GENERAL</b></p> <p>P101 If medical advice is needed, have product container or label at hand</p> <p>P102 Keep out of reach of children</p> <p>P103 Read label before use</p>

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	<p><b>PREVENTATIVE</b></p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces – No Smoking  P233 Keep container tightly closed  P240 Ground/bond container and receiving equipment  P241 Use explosion proof electrical/ventilation/lighting equipment  P242 Use only non-sparking tools  P243 Take precautionary measures against static discharge  P261 Avoid breathing mists/vapours/spray  P271 Use only outdoors or in a well-ventilated area  P272 Contaminated work clothing should not be allowed out of the workplace  P280 Wear protective gloves/eye protection/face protection  P281 Use personal protective equipment as required</p> <p><b>RESPONSE</b></p> <p>P302+P352 IF ON SKIN: Wash with plenty of soap and water  P303+P361+ IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse  P353 Rinse skin with water/shower  P304+P312 IF INHALED: Call a poison centre or doctor if you feel unwell  P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  P312 Call a POISON CENTER or doctor/physician if you feel unwell  P333+P313 If skin irritation or rash occurs: Get medical advice/attention  P363 Wash contaminated clothing before reuse  P370+P378 In case of fire: Use foam/water spray/fog for extinction</p> <p><b>STORAGE</b></p> <p>P403+P235 Store in a well-ventilated place. Keep cool  P403+P233 Store in a well-ventilated place. Keep container tightly closed  P405 Store locked up</p> <p><b>DISPOSAL</b></p> <p>P501 Dispose of contents/container in accordance with local regulations</p>
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## Section 3 COMPOSITION

Ingredient	CAS Number	Proportion
Hexamethylene-1,6-diisocyanate homopolymer	28182-81-2	50-70%
Butyl Acetate	123-86-4	10-30%
1-Methoxy-2-Propyl Acetate	108-65-6	<10%
Xylene	1330-20-7	<10%
Hexamethylene-1,6-diisocyanate	822-06-0	<0.3%
Other Non-Hazardous Materials to 100%		

Note – product contains <0.1% benzene

Proportion is % weight per weight

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS)

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## Section 4 FIRST AID MEASURES

Poisons Information Centres in each State capital city can provide additional assistance for scheduled poisons.

### Description of necessary first aid measures

**Inhalation:** Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. Transport to nearest medical facility for additional treatment in the event of a skin reaction.

**Eye Contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.

**Ingestion:** If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

### Symptoms caused by exposure

**Inhalation:** Breathing of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continuous inhalation may result in unconsciousness and death.

**Skin:** May include burning sensation and/or a dried/cracked appearance and/or allergic skin reaction.

**Eye:** May include burning sensation, redness, swelling and/or blurred vision.

**Ingestion:** May include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever.

## Section 5 FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Foam, water spray or fog, carbon dioxide, dry chemical powder. Do not use water in a jet.

### Specific Hazards:

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapours and traces of hydrogen cyanide. In the event of fire/explosion do not breathe fumes.

### Fire Fighting Advice:

Class 3 Flammable liquid. On burning this product may emit toxic fumes. Heating can cause expansion or decomposition leading to violent rupture of containers. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or decomposition products.

Do not allow contaminated extinguishing water to enter the soil, groundwater or surface waters.

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## Section 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled or released material. Shut off leaks, if possible, without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

### Environmental precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

### Methods and materials for containment and cleaning up

Remove by mechanical means to a labelled, sealable container for product recovery or safe disposal. Cover the remainder with wet, absorbent material (eg sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to a waste container and do not seal (evolution of CO<sub>2</sub>!). Keep damp in a safe ventilated area for several days.

## Section 7 HANDLING AND STORAGE

### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before re-use.

### Storage:

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place but prevent from freezing.

### Exposure standards:

No exposure standards have been established for this material by the National Occupational Health and Safety Commission.

### Engineering Controls:

It is recommended where there are occurrences of mist or vapours, to use local exhaust ventilation, vented to atmosphere.

## Section 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### National Exposure Limits.

No value has been assigned for this specific product by the National Occupational Health and Safety Commission (NOHSC) Worksafe Australia

However, exposure standards for constituents:

Material	TWA		STEL		Notices
	ppm	Mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Hexamethylene-1,6-diisocyanate homopolymer (measured as NCO)		0.02		0.07	
Hexamethylene-1,6-diisocyanate		0.02		0.07	-
Butyl Acetate	150	713	200	950	
1-Methoxy-2-Propyl Acetate	50	274	100	548	
Xylene	80	350	150	655	SK

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**TWA:**

The Time Weighted Average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.

**STEL:**

(Short Term Exposure Limit) The average airborne concentration over a fifteen-minute period which should not be exceeded at any time during a normal eight-hour work day.

**SK Notice:**

Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

These exposure standards are guides to be used in the control of Occupational Health Hazards. All atmospheric contamination should be kept as low as is practicable.

Exposure standards should **NOT** be used as the defining line between safe and dangerous concentrations of chemicals. They are **NOT** a measure of relative toxicity.

**Biological monitoring**

No biological limit allocated.

**Engineering controls**

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use. **DO NOT** enter confined spaces where vapour may have collected.

**Individual protection measures**

**Eye and face protection:** Wear safety goggles/face protection.

**Skin protection:** Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes. Use apron, protective boots, chemical protection suit dependent on activity and possible exposure.

**Respiratory protection:** Respiratory protection required in insufficiently ventilated working areas and during spraying. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

**Thermal hazards:** Not applicable

## Section 9 PHYSICAL PROPERTIES

Appearance: Clear mobile liquid

Solubility: Reacts with water

Odour:	Solvent	Density @ 20°C:	~1.05 kg/lit
pH:	NAP	Flash point & Method:	~26 °C Closed Cup
Vapour Pressure 20°C (mm Hg):	~ 5.0 kPa	Upper Explosive Limit (UEL):	8.0%
Vapour Density (Air = 1)	~3.5	Lower Explosive Limit (LEL):	1.2%
Initial Boiling Point & Range °C:	>120	Ignition Temperature °C:	~460
Freezing Point °C:	NAV	Percent Volatiles (by weight):	~ 34%
NAP = Not Applicable, NAV = Not Available			

## Section 10 STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions of use.

### Chemical stability

Stable under normal conditions of use.

### Possibility of hazardous reactions

Exothermic reactions with amines and alcohols; reacts slowly with water forming CO<sub>2</sub>, in closed containers risk of bursting due to increase of pressure

### Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### Incompatible materials

Water, alcohol, amines

### Hazardous decomposition products

Thermal decomposition is highly dependent on conditions. Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapours and traces of hydrogen cyanide.

## Section 11 TOXICOLOGICAL INFORMATION

### Acute toxicity

Assessment of acute toxicity:

Harmful by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

LD<sub>50</sub> rat (oral): > 5,000 mg/kg (BASF-Test)

The product has not been tested. The statement has been derived from the properties of the individual components.

LC<sub>50</sub> rat (by inhalation): 4 h

not determined

LD<sub>50</sub> rat (dermal):

not determined

### Irritation

Assessment of irritating effects:

Exposure to high concentrations causes respiratory irritations. The product has not been tested. The statement has been derived from the properties of the individual components.

Primary skin irritation rabbit: non-irritant (OECD Guideline 404)

The product has not been tested. The statement has been derived from the properties of the individual components.

Primary irritations of the mucous membrane rabbit: non-irritant (OECD Guideline 405)

The product has not been tested. The statement has been derived from the properties of the individual components.

### Assessment other acute effects

Assessment other acute effects:

A single exposure may have relevant toxic effects on organs.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

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## **Sensitization**

Assessment of sensitization:

No pulmonary sensitization potential was observed in the guinea pig model either after intradermal or inhalative induction with polyisocyanate based on hexamethylene diisocyanate.

No sensitization of the respiratory tract as shown in animal studies.

Guinea pig maximization test: sensitizing

## **Repeated dose toxicity**

Assessment of repeated dose toxicity:

Repeated dermal exposure to large quantities may affect certain organs. The product has not been tested. The statement has been derived from the properties of the individual components. Repeated inhalation exposure to large quantities may affect certain organs. Repeated oral uptake of the substance did not cause substance-related effects.

## **Genetic toxicity**

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

## **Carcinogenicity**

Assessment of carcinogenicity:

No reliable data was available concerning carcinogenic activity.

## **Reproductive toxicity**

Assessment of reproduction toxicity:

No reliable data are available concerning reproduction toxicity.

## **Developmental toxicity**

Assessment of teratogenicity:

No reliable data was available concerning teratogenicity.

## **Additional information:**

Special properties/effects: Over-exposure entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the UK Workplace Exposure Limit (WEL). Prolonged contact with the skin may cause tanning and irritant effects.

Animal tests and other research indicate that skin contact with diisocyanates can play a role in causing isocyanate sensitization and respiratory reaction.

Aromatic hydrocarbons irritate the skin and mucous membranes and are narcotic if inhaled in high concentrations. Repeated or prolonged contact may cause irritation and dermatitis. Risk of cutaneous absorption.

## Section 12 ECOLOGICAL INFORMATION

### Ecotoxicity

Assessment of aquatic toxicity:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Brachydanio rerio* (Directive 92/69/EEC, C.1)

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (Directive 92/69/EEC, C.2)

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), *Desmodesmus subspicatus* (DIN 38412 Part 9)

The product has not been tested. The statement has been derived from the properties of the individual components.

Microorganisms/Effect on activated sludge:

EC20 (3 h) > 150 mg/l, bacteria

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity to fish:

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:

Study scientifically not justified.

Assessment of terrestrial toxicity:

Study scientifically not justified.

### Mobility

Assessment transport between environmental compartments:

No data available.

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation. Well eliminable from water by adsorption on activated sludge.

Elimination information:

Not readily biodegradable (by OECD criteria).

# Safety Data Sheet



## Bioaccumulation potential

Assessment bioaccumulation potential:

Significant accumulation in organisms is not to be expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

## Additional information

Isocyanate reacts with water at the interface forming CO<sub>2</sub> and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

Do not release untreated into natural waters. The local regulations on waste-water treatment must be followed.

## Section 13 DISPOSAL CONSIDERATIONS

Do not pour unwanted product down the drain. Keep unwanted product in sealed containers for disposal via special chemical waste collections. Empty containers should be left open in a well-ventilated area to dry out. When dry, recycle steel containers via steel can recycling programs. Disposal of empty containers via domestic recycling programs may differ between local authorities. Check with your local council first.

## Section 14 TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG7 Code) for transport by road or rail.

UN Number:	1263	HAZCHEM:	•3Y
UN Proper Shipping Name:	PAINT	Packaging Group:	III
Class and Sub Risk:	3 Flammable Liquid		

Special Precautions: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1) in bulk, poisonous gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) and radioactive substances (Class 7), however, exemptions may apply.

## Section 15 REGULATORY INFORMATION

**Hazardous according to Safe Work Australia**

**Poisons Schedule (Australia): S6**

# Safety Data Sheet



## Section 16 OTHER INFORMATION

### General:

Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular, how to safely handle and use the product in the workplace.

Since we cannot anticipate or control the conditions under which this product may be used or handled, each user must, prior to using or handling this product, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is required to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers, and is also available from the company upon request.