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IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION

Product Name	2 PACK POLYURETHANE BASE – CLEAR	Code	2PPU
Product Use	Base component of sprayable HICHEM 2 Pack Polyurethane Industrial Coating		
Ingredients	Name	CAS Number	Proportion w/w
	Synthetic Resin (Polyester Polyol)	Proprietary	30 – 60 %
	Propylene Glycol Mono Methyl Ether Acetate	108 – 65 - 6	10 – <30 %
	Methyl Ethyl Ketone	78 – 93 – 3	10 – <30 %
	Ethyl Benzene	100 – 41 – 4	1.0 – <10 %
	Xylene	1330 – 20 –7	10 – <30 %

HAZARD IDENTIFICATION

The product is classified both as **Hazardous Substance** and **Dangerous Goods** in accordance to ASCC

Risk Phrases R

- 11 Highly Flammable Liquid
 20/21/22 Harmful by inhalation, in skin contact and if swallowed.
 36/37/38 Irritating to eyes, the respiratory system and skin.
 40 Limited evidence of a carcinogenic effect.
 42/43 May cause sensitization by inhalation and skin contact.
 51/53 Harmful to aquatic systems and may cause long term adverse effects in the aquatic environment.
 63 Causes foetotoxicity in animals at doses which are maternally toxic.
 65/66/67 Harmful. May cause lung damage if swallowed. Repeated or prolonged exposure may cause skin dryness and cracking. Vapours may cause headaches, drowsiness and dizziness.

Safety Phrases S

- 2 Keep out of reach of children.
 7/9 Keep containers tightly closed when not in use and also in a well ventilated area.
 15 Keep away from heat.
 16/33 Keep away from sources of ignition. Take precautionary measures against static electricity.
 20/21 When using, do not eat, drink or smoke.
 23.5 Do not breathe the vapours and spray mists
 24/25 Avoid skin contact and with the eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 27 Take off immediately all contaminated clothing.
 28.1 In contact with the skin, wash immediately soap and plenty of water.
 36/37/38/39 Wear protective clothing, including knee high boots, elbow length gloves, positive pressure air supplied full face respirator including eye and face protection. Wear hearing protection when applied by conventional spray
 45 In case of accident, or if you feel unwell, seek medical advice immediately. Show the label where possible.
 62 If swallowed, do not induce vomiting: seek medical advice immediately. Show the label where possible.

ADG PAINT – immiscible in water, UN 1263, Class 3, Packing Group II,
Classification HAZCHEM 3[Y]E.
SUSDP Classified as a Schedule S 5 poison.

FIRST AID MEASURES

<i>Inhalation</i>	If the applicator feels drowsy, dizzy, tired or experiencing headaches, remove the victim to the fresh air. Keep the victim warm and quiet until all symptoms subside.
<i>Ingestion</i>	If swallowed, and only if the person is conscious, give clean water to drink. DO NOT induce vomiting; seek URGENT medical attention if frothing from the mouth occurs.
<i>Eyes</i>	If splashed into eyes, hold eyes open, irrigate copiously with clean water for at least 15 minutes. Seek immediate medical attention if any irritation occurs.
<i>Skin</i>	If skin contact occurs, remove contaminated clothing, and wash thoroughly with soap and plenty of water. Seek medical attention if any irritation occurs.
<i>First Aid Facilities</i>	Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.
<i>Advice to Doctor</i>	If poisoning occurs, consult with the Poisons Information Centre {Telephone 13 11 26 }. Have a copy of this material safety data sheet or label available. Treat symptomatically as symptoms may be delayed for several hours after exposure.



FIRE FIGHTING MEASURES

<i>Extinguishing Media and Requirements</i>	Carbon Dioxide {CO ₂ }, alcohol resistant foam, dry chemical or water spray. DO NOT use water jets. Bund area with sand to prevent run – off entering waterways and drains.
<i>Fire Fighting Procedures & Precautions</i>	Fire – fighters should wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus and gloves. Evacuate all non fire–fighting personnel away from the area. Turn off all electricity and power supplies. Keep containers cool with water spray or water to prevent rupture or burning. Move away all containers and equipment from the direction of the fire, if safe to do so. Keep upwind.
<i>Flammability</i>	Highly Flammable Liquid. Flash Point = - 4 °C
<i>Hazardous Decomposition Products</i>	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide. .



ACCIDENTAL RELEASE MEASURES

<i>Spills and Leaks</i>	Contain all spills and leaks. Avoid contamination with spilt material on surfaces. Remove all sources of ignition and NO SMOKING . Wear the recommended full body impervious clothing, gloves and breathing apparatus as per AS– NZ 1715/16. Keep upwind. Absorb all spilt contents onto sand or earth.
<i>Disposal</i>	Collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.
<i>Other Precautions</i>	Avoid contaminating waterways, drains, water courses and sewage.



HANDLING and STORAGE

Handling

Keep out of reach of children. Avoid unnecessary contact with the material. After use before eating, drinking or smoking wash all exposed skin with soap and water.

Storage

Containers must be clearly labelled, rigid and strong. Store upright in a cool, dry, well ventilated area from heat, ignition sources and direct sunlight e.g. Flammable Goods Store as per AS 1940 requirements.

EXPOSURE CONTROLS

Exposure

Xylene = 350 mg/m³.

Methyl Ethyl Ketone = 600 mg/m³.

Standards

Propylene Glycol Mono Methyl Ether Acetate = 270 mg/m³.

Ethyl Benzene = 440 mg/m³.

Exposure

Xylene = 655 mg/m³.

Standards STEL**Engineering****Controls**

When mixing and spraying of both 2 Pack Finishes and Isocyanate Hardeners, all work must be performed out in approved spray booth in accordance with Australian Standard AS/NZS 4114. All ventilation equipment must be fitted with flame and explosion proof electrical fittings.

PERSONAL PROTECTION

Inhalation**AS -NZS****1715/16**

The wearing of Positive Pressure Air Supplied Full Face Respirator **must be** worn at all times during the mixing and spray application period; until all spray mists are efficiently dispersed from the spray booth atmosphere before exiting.

Eye**AS -NZS 1337**

The wearing of safety glasses fitted with side shields **must be** worn at all times during the mixing and spray application period. Do not wear contact lenses.

Gloves**AS -NZS 2161**

The wearing of Viton or PVC gloves **must be** worn at all times during the mixing and spray application period.

Footwear**AS -NZS 2210**

The wearing of enclosed footwear **must be** worn at all times during the mixing and spray application period

Clothing**AS -NZS 2919**

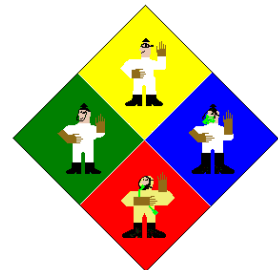
The wearing of anti-static clothing made on natural or synthetic high temperature fibre **must be** worn at all times during the mixing and spray application period

Hearing**AS -NZS 1270**

The wearing of hearing protection when applying by conventional spray **must be** worn during the spraying application period

Other**Requirements**

Avoid contact with eyes and skin. Avoid inhaling spray mists and vapours.



PHYSICAL – CHEMICAL PROPERTIES

Appearance	A colourless liquid with a strong odour.	
pH	Not required.	
Vapour Pressure (Butyl Acetate = 1)	Greater than 1.	
Boiling Point °C	80 – 145 °C {literature value}	
Density	1.0 {calculated value}	
Solubility in water	Immiscible	
Flash Point °C	- 4 °C {literature value}	
Flammability	Lower Explosive Limit = 1.0 %	Upper Explosive Limit = 10.8 %
Limits		
Auto Ignition °C	315 °C {literature value}	
Volatile	Organic Solvents	
Components		

STABILITY and REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Conditions to avoid	Avoid contact with heat and all ignition sources.
Hazardous decomposition products	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide.
Incompatible materials	Incompatible with strong oxidizing agents
Hazardous Reactions	Will not polymerize.

TOXICOLOGICAL INFORMATION

Acute Toxicity Data

Health Effects TWA	Risk Phrase	Xylene	Methyl Ethyl Ketone	Propylene Glycol Mono Methyl Ether Acetate	Ethyl Benzene
Inhalation LC ₅₀ rat 4 hours	20 23	>20mgm/L	>20mgm/L	Not Known	>20mgm/L
Dermal LD ₅₀ rabbit	21	>4300 mgm/kg	>2000 mgm/kg	>7500 mgm/kg	>2000 mgm/kg
Oral LD ₅₀ rat	22	>4500 mgm/kg	>2000 mgm/kg	8500 mgm/kg	>2000 mgm/kg

Note

Risk phrases R20/21/22 has been assigned by the EEC Council Directive 67/548/EEC.
Risk Phrases R20/21/22 – Harmful by inhalation, skin contact or if swallowed.

Acute Oral Toxicity (rat)	Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Acute Dermal Toxicity (rabbit)	Low toxicity.
Acute Inhalation Toxicity (rat)	High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

TOXICOLOGICAL INFORMATION (CONTINUED)

Health Effects

Inhalation	The inhalation of vapours and spray mist may cause acute irritation and sensitisation to the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. When sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the Occupational Exposure Limit (OEL). Repeated or prolonged exposure may lead to permanent disability. Other symptoms may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of co-ordination and impaired judgement. Delayed reactions possible (breathing difficulties, coughs, asthma) during mixing and spray application.
Ingestion	Large quantities may cause nausea and vomiting.
Eyes	Irritating to the eyes, including burning sensation, redness, swelling and/or blurred vision.
Skin	Will have degreasing effect on the skin may result in contact dermatitis.
Other Data	Limited evidence of a carcinogenic effect.
Reproductive	Not mutagenic in animal studies
Toxicity	Causes foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility.

ECOLOGICAL INFORMATION

Environment	Harmful to aquatic environment (R52). May cause long – term adverse effects in the aquatic environment (R53).
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DISPOSAL CONSIDERATIONS

Collect all residues and placed into labelled and sealed containers. Do not incinerate empty containers after use. Dampen all unwanted cloths and rags in water prior to disposal. Do not recycle contents or spent containers. Crush all small empty containers. Larger containers and drums may be sent to an approved drum recycler. Ensure all contents do not pollute waterways, drains and other water courses.

TRANSPORT INFORMATION

UN number	1263		
Proper Shipping Name	PAINT – immiscible in water		
Class	3	Subsidiary Risk	Not Required
Packing Group	II		
Emergency Procedures	EP 3300	Initial Emergency Response Guide	14
HAZCHEM	3[Y]E		
IMDG			



REGULATORY INFORMATION

SUSDP Classification	Classified as a Schedule S 5Poison.
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OTHER INFORMATION

**Emergency
Contact
Disclaimer**

Poisons Information Centre 13 11 26

**HiChem Paint Technologies
(03) 9796 3400**

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