

Hi Chem Paint Technologies Pty.Ltd.

A.B.N. 95 064 139 563

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Email: msdsinfo@hichem.com.auwww.hichem.com.au**HAZARD IDENTIFICATION**

The product is classified as Hazardous Substance in accordance with Safe Work Australia – Hazardous Substances Information System {HSIS 2013} AUSTRALIA, Global Harmonised System {GHS} and Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

GHS HAZARDOUS STATEMENTS

H 225	Category 2	Highly Flammable Liquid – Flash Point <23° Celsius Boiling Point – ≥ 35 ° Celsius
H 303	Category 4	Harmful if swallowed
H 312	Category 4	Harmful in contact with the skin
H 316	Category 4	May cause skin irritation
AUH 066	Repeated exposure may cause skin dryness or cracking	
H 320	Category 2B	Causes eye irritation
H 332	Category 4	Harmful if inhaled
H 334	Category 5	May cause allergy or asthma symptoms : or breathing difficulties if inhaled.
H 336	Category 3	May cause drowsiness and dizziness.
H 373	Category 2	May cause damage to organs.
H 413	Category 4	May cause long lasting harmful effects in the aquatic environment

GHS PRECAUTIONARY STATEMENTS

Statement Type	Statement 'P'	Precautionary Statement Text
General	P 101	Seek medical advice if required
Precautionary	P 102/3	Carefully read and understand this document during manufacturing and application period.
Prevention	P 233/34/35	Keep in original container and tightly closed in a cool dry place when not in use.
	P 241	Ensure all equipment and lighting is explosion proof during the manufacturing and handling period.
	P 261/80	Avoid breathing vapours during manufacturing and application period. Wear the recommended protective equipment at all times,
	P 264	Wash all exposed skin and hair after manufacturing and handling period with soap and warm water.
	P 270	Do not smoke, eat or drink during manufacturing and application period.
	P 273	Avoid release to the environment includes drains, sewage and waterways, and atmosphere.
	P 280	The wearing of protective clothes with gloves, organic vapour respirator, face and eye protection during manufacturing and application period.
	Response	P 301/10

	P 303/13/62	If on skin or hair, wash all exposed area with plenty of warm water and soap. Seek medical advice if any irritation occurs. Remove all contaminated clothing immediately.
	P 304/13	If inhaled, removed oneself to fresh air from the contaminated area and keep warm in a comfortable position. Seek medical advice if any symptoms urgently.
	P 305/13	If in eyes, immediately flush with plenty of water. Remove contact lenses if safe to do so if worn. Contact urgent medical advice immediately if any irritation or blurring occurs.
	P 306/62/63	If splashed onto clothing, removed all contaminated clothing and wash with plenty of water immediately before reuse
	P 370/72/75	If case of fire, use dry sand or earth, or alcohol resistant foam. Containers may explode on heating. If safe to do so, remove all electrical equipment in the direction of fire. Ensure all power supplies are switch off.
	P 380/81	Consider evacuating the area if the fire presents a threat. Eliminate all ignition sources if safe to do so.
	P 390/91	Collect and absorb all spillages onto dry sand or earth and placed into clean, dry and labelled containers prior to disposal.
Storage	P 402/03	Store in a cool, well dry and ventilated place in a Flammable Goods Store and away from protect from direct sunlight.
Disposal	P 501	Dispose carefully unused contents and container(s) to an approved waste disposal site. Further information may be obtained by contacting the Local Statutory Authorities. Ensure all package(s) are labelled as PAINT, Not Otherwise Specified., U.N 1263, CLASS 3, HAZCHEM 3[Y]E

Product Usage.

HICHEM 2 PACK POLYURETHANE CLEAR PART A is the resin component of 2 Pack Polyurethane Finish. When mixed with its corresponding Isocyanate Part B., the resultant finish can be applied by spray for painting over various exterior surfaces. For further information, contact HICHEM helpdesk on (03) 9796 3034.

IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION

<i>Product Name</i>	2 PACK POLYURETHANE CLEAR – PART A	<i>Code</i>	PUR
<i>Name</i>	<i>CAS Number</i>	<i>Proportion w/w</i>	
Polymeric Synthetic Resin	Proprietary	60.0 – 75.0 %	
Toluene	108 – 88 – 3	1.0 – 5.0 %	
Methyl Ethyl Ketone	78 – 93 – 3	10.0 – 15.0 %	
Acetyl Acetone	123 – 54 – 6	1.0 – 5.0 %	
Butyl Acetate	123 – 86 – 4	25.0 – 30.0 %	
Acetone	67 – 64 – 1	5.0 – 10.0 %	

FIRST AID MEASURES

<i>Inhalation</i>	If the operator feels drowsy, dizzy, tired or experiencing headaches, remove the victim away from the contaminated area to the fresh air. Keep the victim warm and quiet until all symptoms subside. If the victim is not breathing, apply artificial respiration immediately away from the contaminated area.
<i>Ingestion</i>	If swallow, and only if the operator is conscious, give water to drink. DO NOT induced vomiting; seek URGENT medical attention if frothing from the mouth occurs.
<i>Eyes</i>	If splashed into eyes, hold eyelids apart, and flush the eyes continuously with running for at least 15 minutes. Continue flushing until advised by a doctor.
<i>Skin and Hair</i>	If skin and hair contact occurs, remove contaminated clothing, and wash thoroughly with soap and plenty of water. Continue flushing until advised by a doctor.
<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, sewage and drains.
<i>Hazardous Decomposition Products</i>	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide, soot and smoke, above the boiling point
<i>Flammability</i>	Highly Flammable Liquid. Flash Point = - 4 ° Celsius
<i>Specific Hazards</i>	Vapours may form explosive/air mixtures.
<i>Precautions in connection with Fire</i>	Fire – fighters should wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus incorporating an Organic Vapour Respirator 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 packages and equipment from the direction of the fire, if safe to do so Keep upwind.



ACCIDENTAL RELEASE MEASURES

Emergency Procedures.	Contain all spills and leaks. Avoid contamination with spilt material on surfaces or entering waterways, drains and sewage. 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.
Spills and Leaks	
Disposal	Collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.
Other Precautions	Ensure there is adequate ventilation at all times during the cleaning up period.



HANDLING and STORAGE

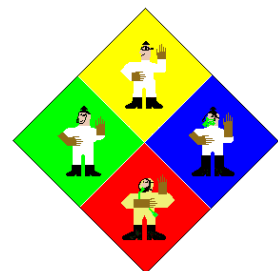
Precautions for Safe Handling	Highly Flammable Liquid. Remove all sources of ignition. Wear the recommended Personal Protective Equipment including organic vapour respirator, eye/face protection, protective clothing, gloves and enclosed footwear. Ensure there is adequate ventilation at all times. After use, before eating, drinking or smoking, wash all exposed skin and hair with soap and water.
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EXPOSURE CONTROLS for 8 hours

Exposure Standards	Acetyl Acetone = No data available
MAK	Toluene = 190 milligram/cubic metre
	Methyl Ethyl Ketone = 350 milligram/cubic metre
	Butyl Acetate = 715 milligram/cubic metre

PERSONAL PROTECTION

Inhalation	The wearing of Positive Pressure Air Supplied Organic Vapour – Particulate Respirator must be worn at all times during the handling and spraying application period.
AS –NZA 1715/16	
Eye	The wearing of safety glasses fitted with side shields must be worn at all times during the application and spraying period. Do not wear contact lenses.
AS –NZA 1337	
Gloves	The wearing of Neoprene or PVC gloves must be worn at all times during the application and handling period.
AS –NZA 2161	
Footwear	The wearing of enclosed footwear must be worn at all times during the application and spraying period.
AS –NZA 2210	
Clothing	The wearing of anti–static clothing made on natural or synthetic high temperature fibre must be worn at all times during the application and spraying period.
AS –NZA 2919	
Hearing	Not required
AS –NZA 1270	
Other Requirements	Avoid contact with eyes and skin at all times. Avoid inhaling vapours.



PHYSICAL – CHEMICAL PROPERTIES

Appearance	A colourless liquid with a strong odour.	
pH	Not required.	
Vapour Pressure <i>(Butyl Acetate = 1)</i>	Greater than 1	
Boiling Point °C	80 to 150 ° Celsius	
Density	0.92 {calculated value}	
Solubility in water	Immiscible	
Flash Point °C	- 4° Celsius (literature value)	
Flammability Limits	Lower Explosive Limit = 1.0	Upper Explosive Limit = 11.5
Auto Ignition °C	315 ° Celsius (literature value)	
Volatile Organic Compounds VOC	56.0 % volume/volume	
Volatile Components	Esters, liquid aromatic hydrocarbon and ketones	

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, soot and smoke.
Incompatible materials	Incompatible with strong oxidizing agents
Hazardous Reactions	Will not polymerize.

TOXICOLOGICAL INFORMATION

Ingredient	Inhalation <i>LC₅₀(rat)</i>	Dermal <i>LD₅₀(rabbit)</i>	Oral <i>LD₅₀(rat)</i>
Toluene	29 mgm/Litre	12200 mgm/kgm	5580 mgm/kgm
Butyl Acetate	29 mgm/Litre	17600mgm/kgm	14800 mgm/kgm
Acetyl Acetone	Not available	810 mgm/kgm	55 mgm//kgm
Methyl Ethyl Ketone	20 mgm/Litre	9400 mgm/kgm	4390 mgm/kgm

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

TOXICOLOGICAL INFORMATION (CONTINUED)

Health Effects – Toxicological and Other Health Information

Inhalation	No data available
Ingestion	No data available.
Eyes	If in eyes, may cause other symptoms including burning sensation, redness, swelling and/or blurred vision. Also, may cause decreased in colour perception.
Skin	May have degreasing effect on the skin may result in contact dermatitis. Repeated or prolonged exposure may cause skin dryness and cracking.
Carcinogenic	Not carcinogenic in animal studies
Mutagenic	Not mutagenic in animal studies.
Reproductive	No data available
Toxicity	

ECOLOGICAL INFORMATION

Environment	May cause long lasting harmful effects in the aquatic environment.
Persistence/ Degradability	No data available.
Mobility	No data available
Environment Protection	Not Known



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. Crush all small empty containers. Large containers and drums may be sent to an approved drum recycler. Ensure all contents do not pollute waterways, drains and sewage

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	Not Known		



REGULATORY INFORMATION

**Regulatory
Information and
Hazard Category
SUSMP
Classification**

The product is classified as Hazardous Substance in accordance to SAFE WORK AUSTRALIA {HSIS} and Globally Harmonised System as Harmful and Irritant.

Classified as a Schedule S 5 Poison.

OTHER INFORMATION

**Emergency
Contact
Disclaimer**

Poisons Information Centre 13 11 26

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

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