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

<table>
<thead>
<tr>
<th>Hazard Level</th>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H 225</td>
<td>Category 2</td>
<td>Highly Flammable Liquid – Flash Point &lt;23° Celsius</td>
</tr>
<tr>
<td>H 303</td>
<td>Category 4</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H 312</td>
<td>Category 4</td>
<td>Harmful in contact with the skin</td>
</tr>
<tr>
<td>H 316</td>
<td>Category 4</td>
<td>May cause skin irritation</td>
</tr>
<tr>
<td>AUH 066</td>
<td></td>
<td>Repeated exposure may cause skin dryness or cracking</td>
</tr>
<tr>
<td>H 320</td>
<td>Category 2B</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H 332</td>
<td>Category 4</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H 334</td>
<td>Category 5</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>H 336</td>
<td>Category 3</td>
<td>May cause drowsiness and dizziness.</td>
</tr>
<tr>
<td>H 373</td>
<td>Category 2</td>
<td>May cause damage to organs.</td>
</tr>
<tr>
<td>H 413</td>
<td>Category 4</td>
<td>May cause long lasting harmful effects in the aquatic environment</td>
</tr>
</tbody>
</table>

GHS Precautionary Statements

<table>
<thead>
<tr>
<th>Statement Type</th>
<th>Statement ‘P’</th>
<th>Precautionary Statement Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>P 101</td>
<td>Seek medical advice if required</td>
</tr>
<tr>
<td>Precautionary</td>
<td>P 102/3</td>
<td>Carefully read and understand this document during manufacturing and application period.</td>
</tr>
<tr>
<td>Prevention</td>
<td>P 233/34/35</td>
<td>Keep in original container and tightly closed in a cool dry place when not in use.</td>
</tr>
<tr>
<td></td>
<td>P 241</td>
<td>Ensure all equipment and lighting is explosion proof during the manufacturing and handling period.</td>
</tr>
<tr>
<td></td>
<td>P 261/80</td>
<td>Avoid breathing vapours during manufacturing and application period. Wear the recommended protective equipment at all times,</td>
</tr>
<tr>
<td></td>
<td>P 264</td>
<td>Wash all exposed skin and hair after manufacturing and handling period with soap and warm water.</td>
</tr>
<tr>
<td></td>
<td>P 270</td>
<td>Do not smoke, eat or drink during manufacturing and application period.</td>
</tr>
<tr>
<td></td>
<td>P 273</td>
<td>Avoid release to the environment includes drains, sewage and waterways, and atmosphere.</td>
</tr>
<tr>
<td></td>
<td>P 280</td>
<td>The wearing of protective clothes with gloves, organic vapour respirator, face and eye protection during manufacturing and application period.</td>
</tr>
<tr>
<td>Response</td>
<td>P 301/10</td>
<td>If swallowed, rinse the mouth water immediately. Contact the Poisons Information Centre (Telephone 13 11 26) urgently.</td>
</tr>
</tbody>
</table>
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.

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.

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.

If splashed onto clothing, removed all contaminated clothing and wash with plenty of water immediately before reuse.

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.

Consider evacuating the area if the fire presents a threat. Eliminate all ignition sources if safe to do so.

Collect and absorb all spillages onto dry sand or earth and placed into clean, dry and labelled containers prior to disposal.

Store in a cool, well dry and ventilated place in a Flammable Goods Store and away from protect from direct sunlight.

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.

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

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

Inhalation
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.

Ingestion
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.

Eyes
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.

Skin and Hair
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.

First Aid Facilities
Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.

Advice to Doctor
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

Extinguishing Media and Requirements
Carbon Dioxide \{CO\textsubscript{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.

Hazardous Decomposition Products
On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide, soot and smoke, above the boiling point

Flammability
Highly Flammable Liquid. Flash Point = - 4 ° Celsius

Specific Hazards
Vapours may form explosive/air mixtures.

Precautions in connection with Fire
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.**

**Spills and Leaks** 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.

**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.

EXPOSURE CONTROLS for 8 hours

**Exposure Standards**

- *Acetyl Acetone* = No data available
- *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.

**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.

**Gloves** The wearing of Neoprene or PVC gloves **must** be worn at all times during the application and handling period.

**Footwear** The wearing of enclosed footwear **must** be worn at all times during the application and spraying period.

**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.

**Hearing** Not required

**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
Greater than 1

Boiling Point °C
80 to 150 °C

Density
0.92 {calculated value}

Solubility in water
Immiscible

Flash Point °C
- 4°C (literature value)

Flammability Limits
Lower Explosive Limit = 1.0
Upper Explosive Limit = 11.5

Auto Ignition °C
315 °C (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

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

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 Toxicity No data available

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
HAZCHEM 3Y1E
IMDG Not Known
REGULATORY INFORMATION

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

Poisons Information Centre 13 11 26  HiChem Paint Technologies
(03) 9796 3400

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