

HiChem Paint Technologies Pty.Ltd.

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IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION

Product Name	2 PACK ISO FREE HARDENER 31	Code	2PIFH
Product Use	The hardener component of sprayable 2 Pack ISO FREE automotive coating		
Ingredients	Name	CAS Number	Proportion w/w
	n Butyl Alcohol	71 – 06 – 0	10 – <30 %
	n Butyl Acetate	123 – 86 – 4	10 – <30 %
	Solvent Naphtha Petroleum – Heavy Aromatic	64742 – 94 – 5	10 – <30 %
	Xylene	1330 – 20 – 7	10 – <30 %
	Polymeric Acrylic Resin	Not Known	10 – <30 %

HAZARD IDENTIFICATION

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

Risk Phrases R

10	Flammable Liquid
20/21/22	Harmful by inhalation, skin contact and if swallowed.
37/38	Irritating to the respiratory system and skin.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
52/53	Harmful to aquatic systems and may cause long term adverse effects in the aquatic environment.
63	Possible risk of harm of unborn child.
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.
57	Use appropriate containment to avoid environmental contamination.
62	If swallowed, do not induce vomiting: seek medical advice immediately. Show the label where possible.

ADG Classification RESIN SOLUTION – immiscible in water, UN 1866, Class 3, Packing Group III, HAZCHEM 3[Y].

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 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>	Flammable Liquid. Flash Point = 23 °C
<i>Hazardous Decomposition Products</i>	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide, cyanides and oxides of nitrogen.



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.

Butyl Acetate = 713 mg/m³.

Standards TWA

n Butyl Alcohol = 152 mg/m³.

Solvent Naphtha = 100 mg/m³.

Exposure

Xylene = 650 mg/m³

Butyl Acetate = 950 mg/m³.

Standards STEL

n Butyl Alcohol = Peak Limitation Skin

Engineering

When applying the product, ensure there is adequate ventilation during the application period. Spraying should be performed in approved spray booth in accordance with Australian Standard AS/NZS 4114.

Controls

PERSONAL PROTECTION

Inhalation

AS –NZS

1715/16

Where spray mist is heavy spray booth and air supplied mask is recommended. Where spray mist is light wearing of a Organic Vapour Respirator is recommended during the application period.

Eye

AS –NZS 1337

Safety glasses fitted with side shields **should** be worn at all times during the mixing and spray application period. Do not wear contact lenses.

Gloves

AS –NZS 2161

Viton or PVC gloves **should** be worn at all times during the mixing and spray application period.

Footwear

AS –NZS 2210

Enclosed footwear **should** be worn at all times during the mixing and spray application period

Clothing

AS –NZS 2919

Anti-static clothing made on natural or synthetic high temperature fibre **should** be worn at all times during the mixing and spray application period

Hearing

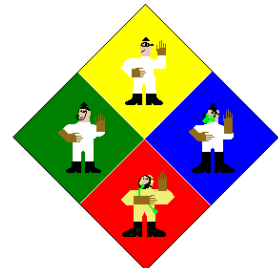
AS –NZS 1270

The wearing of hearing protection is recommended 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)	Equal to 1.	
Boiling Point °C	124 – 210 °C {literature value}	
Density	0.96 {calculated value}	
Solubility in water	Immiscible	
Flash Point °C	23 °C {literature value}	
Flammability Limits	Lower Explosive Limit = 1.0 %	Upper Explosive Limit = 11.2%
Auto Ignition °C	250 °C {literature value}	
Volatile Components	Organic Solvents	

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	Risk Phrase	n Butyl Alcohol	Butyl Acetate	Xylene	Solvent Naphtha
Inhalation LC ₅₀ rat 4 hours	20	>20mgm/L	Not Known	> 20mgm/L	> 20mgm/L
Dermal LD ₅₀ rabbit	21	4400 mgm/kg	3200 mgm/kg	4500 mgm/kg	> 2000 mgm/kg
Oral LD ₅₀ rat	22	790 mgm/kg	>13100 mgm/kg	4300 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 (Xylene) rat	Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Acute Dermal Toxicity (Xylene) rabbit	Moderately toxic
Acute Inhalation Toxicity (Xylene) 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 in the respiratory tract. Other symptoms may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of co-ordination and impaired judgement.
Ingestion	Swallowing can result in nausea, vomiting and central nervous system depression i.e. drunkenness, there is greater likelihood of the victim is breathing vomit and causing in damage to lungs which may lead to aspiration pneumonia (inflammation of the lung) for n Butyl Alcohol.
Eyes	Contamination of eyes can result in permanent injury for n Butyl Alcohol.
Skin	Will have degreasing effect on the skin may result in contact dermatitis for Xylene. Also, it can be absorb through the skin with resultant adverse effects for n Butyl Alcohol.
Other Data	Mixed xylenes contain ethyl benzene, which has shown limited evidence of a carcinogenic effect Not mutagenic in animal studies Chronic exposure may result in adverse effects on the liver. Causes foetotoxicity in animals at doses which are maternally toxic (Xylene). 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	1866		
Proper Shipping Name	RESIN SOLUTION – immiscible in water		
Class	3	Subsidiary Risk	Not Required
Packing Group	III		
Emergency Procedures	EP 3305	Initial Emergency Response Guide	15
HAZCHEM	3[Y]		
IMDG			



REGULATORY INFORMATION

SUSDP
Classification

Classified as a Schedule S 5 Poison.

OTHER INFORMATION

Emergency
Contact
Disclaimer

Poisons Information Centre 13 11 26

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