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## IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION

<b>Product Name</b>	2 PACK ISO FREE HARDENER 3:1 SLOW	<b>Code</b>	2PIFHS
<b>Product Use</b>	The hardener component of sprayable 2 Pack ISO FREE automotive coating		
<b>Ingredients</b>	<b>Name</b>	<b>CAS Number</b>	<b>Proportion w/w</b>
	Ethyl 3 – Ethoxypropionate	763 – 69 – 9	1 – <10 %
	n Butyl Acetate	123 – 86 – 4	10 – <30 %
	Solvent Naphtha Petroleum – Heavy Aromatic	64742 – 94 – 5	30 – 60 %
	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.
36/37/38	Irritating to the eyes, respiratory system and skin.
40	Limited evidence of a carcinogenic effect
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.

<b>ADG Classification</b>	RESIN SOLUTION – immiscible in water, UN 1866, Class 3, Packing Group III, HAZCHEM 3[Y].
<b>SUSDP</b>	Classified as a Schedule S 5 poison.

### FIRST AID MEASURES

<b><i>Inhalation</i></b>	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.
<b><i>Ingestion</i></b>	If swallowed and only if the person is conscious, give water to drink. <b>DO NOT</b> induce vomiting; seek URGENT medical attention if frothing from the mouth occurs.
<b><i>Eyes</i></b>	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.
<b><i>Skin</i></b>	If skin contact occurs, remove contaminated clothing, and wash thoroughly with soap and plenty of water. Seek medical attention if any irritation occurs.
<b><i>First Aid Facilities</i></b>	Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.
<b><i>Advice to Doctor</i></b>	If poisoning occurs, consult with the Poisons Information Centre {Telephone <b>13 11 26</b> }. 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

<b><i>Extinguishing Media and Requirements</i></b>	Carbon Dioxide {CO <sub>2</sub> }, alcohol resistant foam, dry chemical or water spray. <b>DO NOT</b> use water jets. Bund area with sand to prevent run – off entering waterways and drains.
<b><i>Fire Fighting Procedures &amp; Precautions</i></b>	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.
<b><i>Flammability</i></b>	Flammable Liquid. Flash Point = 23 °C
<b><i>Hazardous Decomposition Products</i></b>	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

<b><i>Spills and Leaks</i></b>	Contain all spills and leaks. Avoid contamination with spilt material on surfaces. Remove all sources of ignition and <b>NO SMOKING</b> . 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.
<b><i>Disposal</i></b>	Collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.
<b><i>Other Precautions</i></b>	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**

Ethyl 3 – Ethoxypropionate = Not Known

Butyl Acetate = 713 mg/m<sup>3</sup>.

**Standards TWA**

Solvent Naphtha = 100 mg/m<sup>3</sup>.

**Exposure**

Butyl Acetate = 950 mg/m<sup>3</sup>.

**Standards STEL****Engineering**

When mixing and spraying of both 2 Pack Finishes and this Hardener, all work must be performed out in approved spray booth in accordance with Australian Standard AS/NZS 4114.

**Controls**

## PERSONAL PROTECTION

**Inhalation**

AS –NZS

1715/16

An Organic Vapour - Particulate 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

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

**Footwear**

AS –NZS 2210

**Clothing**

AS –NZS 2919

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

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

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**

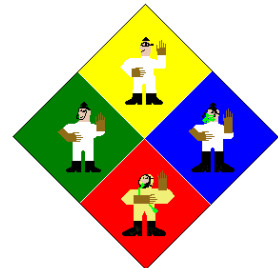
AS –NZS 1270

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

<b>Appearance</b>	A colourless liquid with a strong odour.	
<b>pH</b>	Not required.	
<b>Vapour Pressure</b> (Butyl Acetate = 1)	Equal to 1.	
<b>Boiling Point °C</b>	124 – 210 °C {literature value}	
<b>Density</b>	0.96 {calculated value}	
<b>Solubility in water</b>	Immiscible	
<b>Flash Point °C</b>	23 °C {literature value}	
<b>Flammability</b>	Lower Explosive Limit = 1.0 %	Upper Explosive Limit = 7.5 %
<b>Limits</b>		
<b>Auto Ignition °C</b>	250 °C {literature value}	
<b>Volatile</b>	Organic Solvents	
<b>Components</b>		

## STABILITY and REACTIVITY

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

## TOXICOLOGICAL INFORMATION

<i>Health Effects</i>	<i>Risk Phrase</i>	<i>Solvent Naphtha</i>	<i>Butyl Acetate</i>	<i>Ethyl 3 – Ethoxypropionate</i>
Inhalation LC <sub>50</sub> rat 4 hours	20	>20mgm/L	Not Known	Not Known
Dermal LD <sub>50</sub> rabbit	21	> 2000 mgm/kg	3200 mgm/kg	> 2000 mgm/kg
Oral LD <sub>50</sub> rat	22	> 2000 mgm/kg	>13100 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 (Solvent Naphtha) rat	Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Acute Dermal Toxicity (Solvent Naphtha) rabbit	Moderately toxic
Acute Inhalation Toxicity (Solvent Naphtha) 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, impaired judgement.
Ingestion	Swallowing can result in nausea, vomiting and central nervous system depression.
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	Solvent Naphtha contain trimethylbenzenes, which has shown limited evidence of a carcinogenic effect Not mutagenic in animal studies Possible risk of harm to unborn child (R63) for Solvent Naphtha. Causes foetotoxicity in animals at doses which are maternally toxic (Solvent Naphtha). Does not impair fertility.

## ECOLOGICAL INFORMATION

<b>Environment</b>	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

<b>UN number</b>	1866		
<b>Proper Shipping Name</b>	RESIN SOLUTION – immiscible in water		
<b>Class</b>	3	<b>Subsidiary Risk</b>	Not Required
<b>Packing Group</b>	III		
<b>Emergency Procedures</b>	EP 3300	<b>Initial Emergency Response Guide</b>	14
<b>HAZCHEM</b>	3[ <input checked="" type="checkbox"/> ]		
<b>IMDG</b>			



**REGULATORY INFORMATION**

**SUSDP**  
**Classification**

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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