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**IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION**

<b>Product Name</b>	METHYLATED SPIRITS	<b>Code</b>	METH
<b>Product Use</b>	Use as a solvent.		
<b>Ingredients</b>	<b>Name</b>	<b>CAS Number</b>	<b>Proportion w/w</b>
	Ethyl Alcohol	64 – 17 – 5	60 – 100 %

**HAZARD IDENTIFICATION**

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

**Risk Phrases R**

- 11 Highly Flammable Liquid  
 20/22 Harmful by inhalation and if swallowed.  
 36/38 Irritating to the eyes and skin.  
 52/53 Harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.  
 66/67 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.  
 23.2 Do not breathe vapours.  
 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 The wearing of an Organic Vapour Respirator, Safety Glasses fitted with side – shields, Viton or PVC gloves, enclosed footwear, high temperature and anti – static clothing.  
 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 Classification** ETHYL ALCOHOL, UN 1170, Class 3, HAZCHEM 2[Y]E, Packing Group II, Initial Emergency Response Guide 14.

**SUSDP** Classified as a Schedule S 5 poison.

**FIRST AID MEASURES**

<b>Inhalation</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>Ingestion</b>	If swallowed, and only if the person is conscious, give clean water to drink. If any symptoms occur, <b>DO NOT</b> induce vomiting; seek URGENT medical attention if frothing from the mouth occurs.
<b>Eyes</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>Skin</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>First Aid Facilities</b>	Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.
<b>Advice to Doctor</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 systems may be delayed for several hours after exposure.

**FIRE FIGHTING MEASURES**

<b>Extinguishing Media and Requirements</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>Fire Fighting Procedures &amp; Precautions</b>	Fire – fighters <b>must</b> 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>Flammability Hazardous Decomposition Products</b>	Highly Flammable Liquid. Flash Point = 13 °C On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide

**ACCIDENTAL RELEASE MEASURES**

<b>Spills and Leaks</b>	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. Remove all unwanted personnel away from the contaminated area.
<b>Disposal</b>	Ethyl Alcohol is water soluble. Dilute the spilt contents with water and absorb onto dry sand or soil for disposal by an approved method. Contact the local Statutory Authorities.
<b>Other Precautions</b>	Avoid contaminating waterways, drains, water courses and sewage.



**HANDLING and STORAGE**

<b>Handling</b>	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.
<b>Storage</b>	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**

<b>Exposure Standards MAK</b>	Ethyl Alcohol = 1880 mg/m <sup>3</sup> .
<b>Exposure Standards STEL</b>	Ethyl Alcohol = Not Known
<b>Engineering Controls</b>	The use of local exhaust ventilation equipment is required. All ventilation equipment must be fitted with flame and explosion proof electrical fittings.

**PERSONAL PROTECTION**

<b>Inhalation AS –NZS 1715/16</b>	The wearing of an Organic Vapour Respirator <b>should be</b> worn during the application period.
<b>Eye AS –NZS 1337</b>	The wearing of safety glasses fitted with side shields <b>should be</b> worn at all times during the application period. Do not wear contact lenses.
<b>Gloves AS –NZS 2161</b>	The wearing of Viton or PVC elbow length gloves <b>should be</b> worn at all times during the application period..
<b>Footwear AS –NZS 2210</b>	The wearing of enclosed footwear <b>should be</b> worn during the application period.
<b>Clothing AS –NZS 2919</b>	The wearing of anti–static clothing made on natural or synthetic high temperature fibre <b>should be</b> worn during the application period.
<b>Hearing AS –NZS 1270</b>	Not Required.
<b>Other Requirements</b>	Avoid contact with eyes and skin. Avoid inhaling vapours and spray mists at all times.

**PHYSICAL – CHEMICAL PROPERTIES**

<b>Appearance</b>	A colourless liquid with a characteristic odour.	
<b>pH</b>	Not required.	
<b>Vapour Pressure (Butyl Acetate = 1)</b>	Greater than 1.0	
<b>Boiling Point °C</b>	77 – 79 °C {literature value}	
<b>Density</b>	0.80 {literature value}	
<b>Solubility in water</b>	Miscible	
<b>Flash Point °C</b>	13 °C {literature value}	
<b>Flammability Limits</b>	Lower Explosive Limit = 3.5 %	Upper Explosive Limit = 19.0 %
<b>Auto Ignition °C</b>	395 °C	
<b>Volatile Components</b>	Organic Solvents	

**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>Ethyl Alcohol</i>
Inhalation LC <sub>50</sub> rat	20	> 20mgm/L
Dermal LD <sub>50</sub> rabbit	21	> 2000mgm/kgm
Oral LD <sub>50</sub> rat	22	> 2000mgm/kgm

**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	Low toxicity.
Acute Dermal Toxicity rabbit	Low toxicity
Acute Inhalation Toxicity rat	Low toxicity.

**OTHER TOXICOLOGICAL INFORMATION****Health Effects**

Inhalation	High concentrations may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of co-ordination and impaired judgement: continued inhalation may result in narcosis and vomiting
Ingestion	Large quantities may cause nausea and vomiting.
Eyes	Irritating to the eyes, including burning sensation, redness, swelling and/or blurred vision.
Skin	May cause irritation to the skin resulting in redness.
Carcinogenicity	Not carcinogenic in animal studies.
Mutagenicity	Not mutagenic in animal studies
Reproductive Toxicity	May cause foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility.

**ECOLOGICAL INFORMATION**

<b>Environment</b>	Harmful to aquatic organisms (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>	1170		
<b>Proper Shipping Name</b>	ETHYL ALCOHOL (ETHANOL)		
<b>Class</b>	3	<b>Subsidiary Risk</b>	Not Required
<b>Packing Group</b>	II		
<b>Emergency Procedures</b>	3300	<b>Initial Emergency Response Guide</b>	14
<b>HAZCHEM</b>	2[Y]E		
<b>IMDG</b>	Not Known		

**REGULATORY INFORMATION**

**SUSDP** Classified as a Schedule S 5 poison.

**OTHER INFORMATION**

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

**Disclaimer** *Data provided is to best of HiChem Paint Technologies Proprietary Limited knowledge and believe to be accurate and reliable as of the date of issued. However no expressed or implied warranties are given. HiChem Paint Technologies Proprietary Limited cannot anticipate or control the conditions under which this information may be used. Therefore, it is user's responsibility to satisfy themselves as to the suitability and completeness of such information for their particular use. It is the responsibility of the user to ensure that the issue is current. This information given is a non-controlled document*