

**HiChem Paint Technologies Pty.Ltd.**

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**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 222	Category 1	Extremely Flammable Aerosol
H 229	Category 3	Pressurized container: may burst if heated
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 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 101/102/3	Keep out of reach of children. Carefully read and understand this document during the application period..
Prevention	P 233/34/35	Keep in original package(s) and tightly closed in a cool dry place when not in use. Ensure all package(s) are clearly labelled.
	P 241	Ensure all equipment and lighting is explosion proof during the application period.
	P 261/80	Avoid breathing vapours during manufacturing and handling period. Wear the recommended protective equipment at all times,
	P 264	Wash all exposed skin and hair after the application period with soap and warm water.
	P 270	Do not smoke, eat or drink during the 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, vapour mask, face and eye protection during the application period.
Response	P 301/10	If swallowed, rinse the mouth water immediately. Contact the Poisons Information Centre (Telephone 13 11 26) urgently.
	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 immediately
	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 package(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 AEROSOL, capacity less than 1 Litre., U.N 1950, CLASS 2, HAZCHEM 2 Y E.

**Product Usage.** Apply by aerosol spray as high adhesion primer on metal. For further information contact HICHEM helpdesk on (03) 9796 3034.

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

<b>Product Name</b>	SUPER ETCH PRIMER – AEROSOL		<b>Code</b> EP 400
<b>Product Use</b>	An aerosol spray used for priming of small metal areas.		
<b>Ingredients</b>	<b>Name</b>	<b>CAS Number</b>	<b>Proportion w/w</b>
	Toluene	108 – 88 – 3	10 – <30 %
	Aliphatic Alcohols	Mixture	10 – <30 %
	Methyl Ethyl Ketone	78 – 93 – 3	10 – <30 %
	Di Methyl Ether	115 – 10 – 6	30 – 60 %
	Coloured Pigments/Extenders(non – hazardous)	Mixture	1.0 – <10 %
	Polymeric Synthetic Resins (non – hazardous)	Mixture	1.0 – <10 %
	Additives (non – hazardous)	Mixture	0.1 – <1.0 %

### 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>	Unlikely route of exposure. Give 2 glasses of 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><i>Eyes</i></b>	If sprayed 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 systems may be delayed for several hours after exposure.



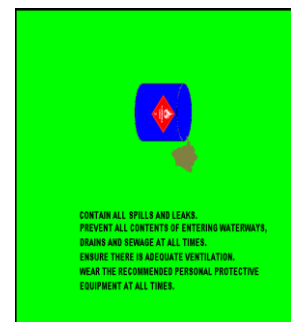
### FIRE FIGHTING MEASURES

<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 <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><i>Flammability Hazardous Decomposition Products</i></b>	Extremely Flammable Gas. Flash Point = < - 25 ° C On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide



### 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

<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.

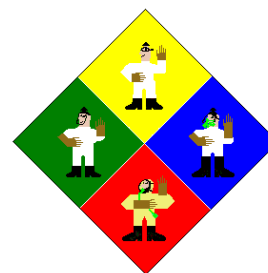
## EXPOSURE CONTROLS for 8 hours

<b>Exposure Standards MAK</b>	Di Methyl Ether = 760 milligram/Litre Acetone = 1185 milligram/cubic metre Toluene = 190 mgm/cubic metre Xylene = 350 milligram/cubic metre Ethyl Alcohol = 960 milligram/cubic metre Ethyl Benzene = 435 milligram/cubic metre Aliphatic Esters = $\geq 500$ milligram/cubic metre Methyl Ethyl Ketone = 600 mg/m <sup>3</sup>
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<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. Do not use in a confined space.
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## PERSONAL PROTECTION

<b>Inhalation</b> AS –NZS 1715/16	Organic Vapour – Particulate Respirator <b>must be</b> worn at all times during the application period.
<b>Eye</b> AS –NZS 1337	Safety glasses fitted with side shields <b>must be</b> worn during the application period. Do not wear contact lenses.
<b>Gloves</b> AS –NZS 2161	Viton or PVC gloves <b>must be</b> worn during the application period.
<b>Footwear</b> AS –NZS 2210	Enclosed footwear <b>must be</b> worn during the application period.
<b>Clothing</b> AS –NZS 2919	Anti-static clothing made on natural or synthetic high temperature fibre <b>must be</b> worn during the application period.
<b>Hearing</b> AS –NZS 1270	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 coloured gas with a mild odour.
<b>pH</b>	Not required.
<b>Vapour Pressure</b> (Butyl Acetate = 1)	Greater than 1.0
<b>Boiling Point °C</b>	Not Known
<b>Density</b>	0.79 {calculated value}
<b>Solubility in water</b>	Immiscible
<b>Flash Point °C</b>	< - 25 °C {literature value}

<b>Flammability Limits</b>	Lower Explosive Limit = 1.2 %	Upper Explosive Limit = 15.0 %
<b>Auto Ignition °C</b>	340 °C {literature value}	
<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 will 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**

<b>Ingredient</b>	<b>Inhalation LC<sub>50</sub> (rat)</b>	<b>Dermal LD<sub>50</sub> (rabbit)</b>	<b>Oral LD<sub>50</sub>(rat)</b>
Di Methyl Ether	20 mgm/Litre	2000 mg/kgm	28700 mgm/kgm
Toluene	29 mgm/Litre	12200 mgm/kgm	5580 mgm/kgm
Aliphatic Esters	20 mgm/Litre	2000 mgm/kgm	2000 mgm/kgm
Acetone	50 mgm/Litre	7450mgm/kgm	5800 mgm/kgm

Acute Oral Toxicity rat	Low toxicity. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Acute Dermal Toxicity	Low toxicity
Acute Inhalation Toxicity	Low toxicity. 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 unconsciousness and/or death.

### **OTHER TOXICOLOGICAL INFORMATION (CONTINUED)**

#### **Health Effects**

Inhalation	Other symptoms may cause dizziness, nausea, coughing, lack of co – ordination and impair judgement.
Ingestion	Large quantities may cause nausea and vomiting.
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.
Carcinogenicity	No evidence of a carcinogenic effect.
Mutagenicity	Not mutagenic in animal studies
Reproductive Toxicity	May impair fertility.

### ECOLOGICAL INFORMATION

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



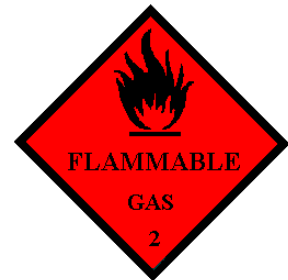
### DISPOSAL CONSIDERATIONS

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 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>	1950		
<b>Proper Shipping Name</b>	AEROSOLS, capacity less than 1 Litre		
<b>Class</b>	2	<b>Subsidiary Risk</b>	Not Required
<b>Packing Group</b>	Not Assigned	<b>Initial Emergency Response Guide</b>	49
<b>Emergency Procedures</b>	3900		
<b>HAZCHEM</b>	2YE		
<b>IMDG</b>	Not Known		



### OTHER INFORMATION

<b>Emergency Contact</b>	<b>Poisons Information Centre 13 11 26</b>	<b>HiChem Paint Technologies (03) 9796 3400</b>
<b>Disclaimer</b>	<i>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</i>	