

HiChem Paint Technologies Pty.Ltd.

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IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION

| | | | |
|---------------------|---|-------------------|-----------------------|
| Product Name | SUPER ETCH PRIMER – AEROSOL | Code | EP 400 |
| Product Use | An aerosol spray used for priming of small metal areas. | | |
| Ingredients | Name | CAS Number | Proportion w/w |
| | 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 % |

HAZARD IDENTIFICATION

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

Risk Phrases R

- 12 Extremely Flammable Gas
21/22 Harmful in contact with the skin and if swallowed.
36/38 Irritating to the eyes and skin.
48/20 Harmful: Danger of serious damage to health by prolonged exposure through inhalation.
51/53/59 Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Dangerous for the ozone layer
63 Causes foetotoxicity in animals at doses which are maternally toxic.
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 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 The wearing of an Organic Vapour – Particulate 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 AEROSOLS – with a capacity less than 1 Litre, UN 1950, HAZCHEM 3WE, Class 9, Initial Emergency Response Guide 49.

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> | Unlikely route of exposure. Give 2 glasses of clean water to drink. If any symptoms occur, DO NOT induce vomiting; seek URGENT medical attention if frothing from the mouth occurs. |
| <i>Eyes</i> | 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. |
| <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 systems may be delayed for several hours after exposure. |



FIRE FIGHTING MEASURES

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



ACCIDENTAL RELEASE MEASURES

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| <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

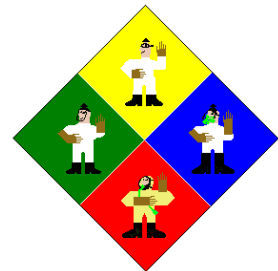
| | |
|-----------------|---|
| Handling | Keep out of reach of children. Avoid unnecessary contact with the material. After use before eating, drinking or smoking wash all exposed skin with soap and water. |
| Storage | Containers must be clearly labelled, rigid and strong. Store upright in a cool, dry, well ventilated area from heat, ignition sources and direct sunlight e.g. Flammable Goods Store as per AS 1940 requirements. |

EXPOSURE CONTROLS

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|--------------------------------|--|-----------------------------------|
| Exposure Standards MAK | Di Methyl Ether = Not Known | Toluene = 190 mg/m ³ . |
| Exposure Standards STEL | Methyl Ethyl Ketone = 600 mg/m ³ | |
| Engineering Controls | Toluene = 575 mg/m ³ . | |
| | 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. | |

PERSONAL PROTECTION

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



PHYSICAL – CHEMICAL PROPERTIES

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|--|-----------------------------------|--------------------------------|
| Appearance | A coloured gas with a mild odour. | |
| pH | Not required. | |
| Vapour Pressure (Butyl Acetate = 1) | Greater than 1.0 | |
| Boiling Point °C | Not Known | |
| Density | 0.79 {calculated value} | |
| Solubility in water | Immiscible | |
| Flash Point °C | < - 25 °C {literature value} | |
| Flammability Limits | Lower Explosive Limit = 1.2 % | Upper Explosive Limit = 15.0 % |
| Auto Ignition °C | 340 °C {literature value} | |
| Volatile Components | Organic Solvents. | |

STABILITY and REACTIVITY

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|---|---|
| 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 will 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

| <i>Health Effects</i> | <i>Risk Phrase</i> | <i>Toluene</i> | <i>Methyl Ethyl Ketone</i> | <i>Aliphatic Alcohols</i> |
|---------------------------------|--------------------|----------------|----------------------------|---------------------------|
| Inhalation LC ₅₀ rat | 20 | >20 mgm/L | >20 mgm/L | >20 mgm/L |
| Dermal LD ₅₀ rabbit | 21 | >2000 mgm/kgm | >2000 mgm/kgm | >2000 mgm/kgm |
| Oral LD ₅₀ rat | 22 | 640 mgm/kgm | >2000 mgm/kgm | >2000 mgm/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 | Moderate toxicity. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. |
| Acute Dermal Toxicity rabbit | Low toxicity |
| Acute Inhalation Toxicity rat | 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 | Causes foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility. |

ECOLOGICAL INFORMATION

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|--------------------|---|
| Environment | Toxic to aquatic organisms (R51). May cause long – term adverse effects in the aquatic environment (R53). Dangerous for the ozone layer (R59) |
|--------------------|---|

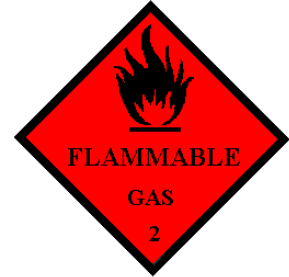
DISPOSAL CONSIDERATIONS

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

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|-----------------------------|--------------------------------------|---|--------------|
| UN number | 1950 | | |
| Proper Shipping Name | AEROSOLS, capacity less than 1 Litre | | |
| Class | 9 | Subsidiary Risk | Not Required |
| Packing Group | Not Assigned | | |
| Emergency Procedures | 3900 | Initial Emergency Response Guide | 49 |
| HAZCHEM | 3WE | | |
| IMDG | Not Known | | |



REGULATORY INFORMATION

SUSDP Classified as a Schedule S 5 poison.

OTHER INFORMATION

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

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