

HiChem Paint Technologies Pty.Ltd.

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Email: msdsinfo@hichem.com.au www.hichem.com.au**IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION**

Product Name	UNIVERSAL FLATTING BASE	Code	UFB
Product Use	Use as a flattening base additive for HICHEM Industrial Finishes.		
Ingredients	Name	CAS Number	Proportion w/w
	Xylene	1330 – 20 – 7	30 – 60 %
	Propylene Glycol Mono Methyl Ether	107 – 98 – 2	10 – <30 %
	Synthetic Amorphous Silicon Dioxide	7631 – 86 – 9	10 – <30 %
	Synthetic Resin (Non – Hazardous)	Proprietary	10 – <30 %
	Additives (Non – Hazardous)	Mixture	1 – <10 %

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, in contact with the skin and if swallowed.
 36/38 Irritating to the eyes and skin.
 40 Limited evidence of a carcinogenic effect.
 51/53 Toxic to aquatic organisms 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.
 23.2 Do not breathe the vapour.
 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, an organic vapour respirator including eye and face protection.
 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 PAINT – immiscible in water, UN 1263, Class 3, HAZCHEM 3[Y], Packing Group III

SUSDP Classified as a Schedule S 5 poison.

FIRST AID MEASURES

Inhalation	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.
Ingestion	If swallowed, and only if the person is conscious, give water to drink. If any systems occur, clean DO NOT induce vomiting; seek URGENT medical attention if frothing from the mouth occurs.
Eyes	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.
Skin	If skin contact occurs, remove contaminated clothing, and wash thoroughly with soap and plenty of water. Seek medical attention if any irritation occurs.
First Aid Facilities	Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.
Advice to Doctor	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.



FIRE FIGHTING MEASURES

Extinguishing Media and Requirements	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.
Fire Fighting Procedures & Precautions	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.
Flammability	Flammable Liquid. Flash Point = 27 °C
Hazardous Decomposition Products	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide. .



ACCIDENTAL RELEASE MEASURES

Spills and Leaks	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.
Disposal	Collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.
Other Precautions	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.

Standards MAK

Propylene Glycol Mono Methyl Ether = 370 mg/m³.

Exposure

Xylene = 655 mg/m³.

Standards STEL**Engineering**

Use mechanical exhaust ventilation system that is both flame and explosion proof electrical fittings during the application period at all times. Do not use in a confined space.

Controls**PERSONAL PROTECTION****Inhalation**

The wearing of an Organic Vapour – Particulate Respirator **should be** worn at all times during the application period.

AS –NZS**1715/16****Eye**

The wearing of safety glasses fitted with side shields **should be** worn at all times during the application period. Do not wear contact lenses.

AS –NZS 1337**Gloves**

The wearing of Viton or PVC gloves **should be** worn at all times during the application period..

AS –NZS 2161**Footwear**

The wearing of enclosed footwear **should be** worn at all times during the application period.

AS –NZS 2210**Clothing**

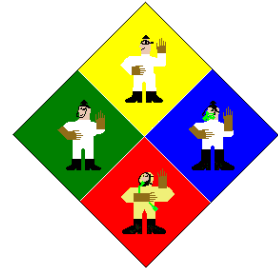
The wearing of anti–static clothing made on natural or synthetic high temperature fibre **should be** worn at all times during the application period.

AS –NZS 2919**Hearing**

Not required.

AS –NZS 1270**Other**

Avoid contact with eyes and skin. Avoid inhaling the vapours.

Requirements

PHYSICAL – CHEMICAL PROPERTIES

Appearance	A colourless liquid with a mild odour.	
pH	Not required.	
Vapour Pressure (Butyl Acetate = 1)	Less than 1.0	
Boiling Point °C	120 – 150 °C {literature value}	
Density	1.05 {calculated value}	
Solubility in water	Immiscible	
Flash Point °C	27 °C {literature value}	
Flammability Limits	Lower Explosive Limit = 1.0 %	Upper Explosive Limit = 13.7 %
Auto Ignition °C	315 °C {literature value}	
Volatile Components	Xylene and Propylene Glycol Mono Methyl Ether as 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

<i>Health Effects</i>	<i>Risk Phrase</i>	<i>Xylene</i>	<i>Propylene Glycol Mono Methyl Ether</i>
Inhalation LC ₅₀ rat	20	>20 mgm/L	> 20mgm/L
Dermal LD ₅₀ rabbit	21	4500 mgm/kg	> 2000 mgm/kg
Oral LD ₅₀ rat	22	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 (Toluene) rat	Low 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.

TOXICOLOGICAL INFORMATION (CONTINUED)**Health Effects**

Inhalation	The inhalation of vapours and spray mist may cause acute irritation in the respiratory tract.
Ingestion	May cause irritation to mucous membranes.
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	Limited evidence of a carcinogenic effect
Mutagenicity	Not mutagenic in animal studies Causes foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility.

ECOLOGICAL INFORMATION

Environment	Toxic to aquatic organisms (R51). 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	1263		
Proper Shipping Name	PAINT – immiscible in water.		
Class	3	Subsidiary Risk	Not Required
Packing Group	III		
Emergency Procedures	3305	Initial Emergency Response Guide	15
HAZCHEM	3[Y]		
IMDG			

**REGULATORY INFORMATION**

SUSDP	Classified as a Schedule S 5 poison.
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OTHER INFORMATION

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