

HiChem Paint Technologies Pty.Ltd.

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**HAZARD IDENTIFICATION**

The product is classified as both a **Dangerous Goods and Hazardous Substance** in accordance to Work Safe Australia criteria.

Risk Phrases R

- 11 Highly Flammable Liquid.
 21/22 Harmful in contact with skin and if swallowed.
 36/37/38 Irritating to the eyes, respiratory system and skin.
 40 Limited evidence of a carcinogenic effect.
 48/20 Harmful: Danger of serious damage to health by prolonged exposure by inhalation.
 52/53/59 Harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. Danger to the ozone layer.
 63 Possible risk of harm to 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.
 15/16 /33 Keep away from heat and sources of ignition and 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 enclosed footwear, PVC or Neoprene gloves, organic vapour/particulate 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** Classified as a Australian Dangerous Goods as PAINT RELATED MATERIAL –
Classification THINNER, N.O.S., immiscible in water, UN 1263, Class 3, HAZCHEM 3[Y]E,
 Packing Group II.
SUSDP Classified as a Schedule S 6 poison.

IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION

Product Name	THINNER TOLUENE		Code
Product Use	Used as solvent and thinner for HICHEM industrial paints prior to application		
Ingredients	Name	CAS Number	Proportion w/w
	Toluene	108 – 88 – 3	60 – 100 %
	Other Liquid Aromatic Hydrocarbons	Mixture	0.1 – < 1.0 %

FIRST AID MEASURES

<i>Inhalation</i>	If the applicator feels drowsy, dizzy, tired or experiencing headaches, remove the victim away from the contaminated area to the fresh air. Keep the victim warm and quiet until all symptoms subside. If the victim is not breathing, apply artificial respiration immediately away from the contaminated area.
<i>Ingestion</i>	If swallow, and only if the person is conscious, give water to drink. DO NOT induced vomiting; seek URGENT medical attention if frothing from the mouth occurs.
<i>Eyes</i>	If splashed into eyes, hold eyelids apart, and flush the eyes continuously with running for at least 15 minutes. Continue flushing until advised by a doctor.
<i>Skin and Hair</i>	If skin and hair contact occurs, remove contaminated clothing, and wash thoroughly with soap and plenty of water. Continue flushing until advised by a doctor.
<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 symptoms may be delayed for several hours after exposure.

**FIRE FIGHTING MEASURES**

<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, sewage and drains.
<i>Hazardous Decomposition Products</i>	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide, soot and smoke, above the boiling point
<i>Flammability</i>	Highly Flammable Liquid. Flash Point = 4 °C
<i>Specific Hazards</i>	Vapours may form explosive/air mixtures.
<i>Precautions in connection with Fire</i>	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 packages and equipment from the direction of the fire, if safe to do so. Keep upwind.

**ACCIDENTAL RELEASE MEASURES**

<i>Emergency Procedures. Spills and Leaks</i>	Contain all spills and leaks. Avoid contamination with spilt material on surfaces or entering waterways, drains and sewage. 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>	Ensure there is adequate ventilation at all times during the cleaning up period.



HANDLING and STORAGE**Precautions for Safe Handling**

Highly Flammable Liquid. Remove all sources of ignition. Wear the recommended Personal Protective Equipment including organic vapour respirator, eye/face protection, protective clothing, gloves and enclosed footwear. Ensure there is adequate ventilation at all times. After use, before eating, drinking or smoking wash all exposed skin and hair with soap and water. Keep out of reach of children.

Conditions of Safe 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**

Toluene = 190 mg/m³.

Standards MAK

Other Liquid Aromatic Hydrocarbons (mixture) = Not Known

Exposure

Toluene = 565 mg/m³.

Standards STEL**Biological**

There are no known Biological Limited Values have been assigned.

Limited Values**Engineering**

The use of local exhaust ventilation equipment is required. All ventilation equipment must be fitted with flame and explosion proof electrical fittings.

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

The wearing of Organic Vapour Respirator **must** be worn at all times during the handling and application period.

AS –NZS**1715/16****Eye**

The wearing of safety glasses fitted with side shields **should** be worn at all times during the handling and 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 handling and application period.

AS –NZS 2161**Footwear**

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

AS –NZS 2210**Clothing**

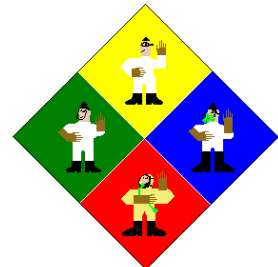
The wearing of anti-static clothing made on natural or synthetic high temperature fibre **should** be worn at all times during the handling and application period

AS –NZS 2919**Hearing**

Not Required.

AS –NZS 1270**Other**

Avoid contact with eyes and skin. Avoid inhaling vapours and spray mists at all times

Requirements

PHYSICAL – CHEMICAL PROPERTIES

Appearance	A colourless liquid with a strong odour.	
pH	Not required.	
Vapour Pressure (Butyl Acetate = 1)	Greater than 1	
Boiling Point °C	110 °C (literature value)	
Density	0.87 (literature value)	
Solubility in water	Immiscible	
Flash Point °C	4 °C (literature value)	
Flammability Limits	Lower Explosive Limit = 1.0	Upper Explosive Limit = 7.5
Auto Ignition °C	480 °C (literature value)	
Volatile Components	Liquid hydrocarbons	

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	No known hazardous reactions.

TOXICOLOGICAL INFORMATION

<i>Health Effects</i>	<i>Risk Phrase</i>	<i>Toluene</i>
Inhalation LC ₅₀ rat	20	20 mg/L.
Dermal LD ₅₀ rabbit	21	12100 mgm/kg
Oral LD ₅₀ rat	22	640 mgm/kg

Acute Oral Toxicity rat	Moderately toxic. 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 and nausea; continued inhalation may result in unconsciousness and/or death.

TOXICOLOGICAL INFORMATION (CONTINUED)**Health Effects**

Inhalation	The inhalation of vapours and may cause acute irritation to the respiratory system. Other symptoms may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of co-ordination, impaired judgement. Vapours may cause headaches, drowsiness and dizziness
Ingestion	Large quantities may cause nausea and vomiting. Harmful. May cause lung damage if swallowed.
Eyes	May irritate to the eyes, including burning sensation, redness, swelling and/or blurred vision. Also, may cause decreased in colour perception.
Skin	May have degreasing effect on the skin may result in contact dermatitis. Repeated or prolonged exposure may cause skin dryness and cracking.
Carcinogenic	Not carcinogenic in animal studies.
Mutagenic	Not mutagenic in animal studies.
Reproductive Toxicity	Causes foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility.

ECOLOGICAL INFORMATION

Environment	Harmful to aquatic organisms (R 52) May cause long – term adverse effects in the aquatic environment (R53). Dangerous to the ozone layer (R 59).
Persistence/ Degradability	Readily biodegradable meeting the 10 day window criterion. Oxidizes rapidly by photochemical reactions in air.
Mobility	Floats on water.
Environment Protection	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. Crush all small empty containers. Large containers and drums may be sent to an approved drum recycler. Ensure all contents do not pollute waterways, drains and sewage.

TRANSPORT INFORMATION

UN number	1263		
Proper Shipping Name	PAINT RELATED MATERIAL – THINNERS, immiscible in water		
Class	3	Subsidiary Risk	Not Required
Packing Group	II	Initial Emergency Response Guide	14
Emergency Procedures	EP 3300		
HAZCHEM	3 Y E		
IMDG	Not Known		



REGULATORY INFORMATION

Regulatory Information and Hazard Category	The product is classified as a Hazardous Substance in accordance to Work Safe Australia as Harmful and Irritant.
SUSDP Classification	Classified as a Schedule S 6 Poison.

OTHER INFORMATION

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

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Version 2.1
HICH 7489
September 2011