

HiChem Paint Technologies Pty.Ltd.

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Email: msdsinfo@hichem.com.au[www:hichem.com.au](http://www.hichem.com.au)**HAZARD IDENTIFICATION**

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

Risk Phrases R

- 20 Harmful by inhalation.
 36/37/38 Irritating to eyes, respiratory system and skin.
 42/43 May cause sensitization by inhalation and skin contact.
 53 May cause long term adverse effects in the aquatic environment.
 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.
 20/21 When using, do not eat, drink or smoke.
 23.2 Do not breathe the 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 Wear protective clothing, including enclosed footwear, PVC or Neoprene gloves, organic vapour respirator including eye, hair 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 Not Classified**Classification****SUSDP** Classified as a Schedule S 6 poison.**IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION**

Product Name	POLYURETHANE SEALER AND ADHESIVE	Code	PUSEAL
Product Use	A single pack, moisture cured polyurethane sealer and adhesive, applied by cartridge gun for filling and repair work on damaged automotive vehicles.		
Ingredients	Name	CAS Number	Proportion w/w
	Monomeric Di Phenyl Methane Di Isocyanate	101 – 68 – 8	<0.5 %
	Non hazardous ingredients		balance

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.



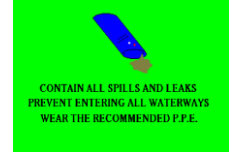
FIRE FIGHTING MEASURES

<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 and nitrogen oxides, cyanide, phenol, soot and smoke, above the boiling point
<i>Flammability</i>	Combustible. Flash Point = > 61 °C
<i>Specific Hazards</i>	Vapours may form explosive/air mixtures.
<i>Precautions in connection with Fire</i>	Fire – fighters must wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus as per AS – NZ 1715/16, eye and face protection, and gloves. Evacuate all non fire–fighting personnel away from the area. Turn off all electricity and power supplies. Keep packages cool with water spray 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

Emergency Procedures. Spills and Leaks	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 . Operators must wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus as per AS – NZ 1715/16, eye and face protection, and gloves... Keep upwind. Absorb all spilt contents onto dry 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	Ensure there is adequate ventilation at all times during the cleaning up period.



HANDLING and STORAGE

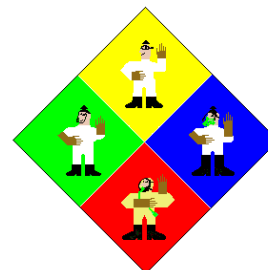
Precautions for Safe Handling	Combustible. Remove all sources of ignition. Wear the recommended Personal Protective Equipment including organic vapour respirator, eye/face protection, protective clothing, gloves and enclosed footwear. Ensure there is adequate ventilation at all times. Avoid unnecessary contact with the material. After use, before eating, drinking or smoking, wash all exposed skin and hair with soap and water.
Conditions of Safe Storage	Packages 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 Standards MAK	All Isocyanates = 0.01 mg/m ³ .
Exposure Standards STEL	No data available.
Biological Limited Values	There are no known Biological Limited Values have been assigned.
Engineering Controls	When handling and application, used in a well ventilated area of having doors and windows open at all times. Ensure all equipment is flame and explosion proof electrical fittings. Do not use in a confined area.

PERSONAL PROTECTION

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



PHYSICAL – CHEMICAL PROPERTIES

Appearance	A coloured viscous paste with a pungent odour.	
pH	Not required.	
Vapour Pressure <i>(Butyl Acetate = 1)</i>	Less than 1	
Boiling Point °C	196 °C (literature value)	
1.6	1.6 {calculated value}	
Solubility in water	Immiscible	
Flash Point °C	Greater than 61 °C (literature value)	
Flammability Limits	Lower Explosive Limit = Not Known	Upper Explosive Limit = Not Known
Auto Ignition °C	232 °C (literature value)	
Volatile Components	Not Known	

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 and nitrogen oxides, cyanides, phenol, soot and smoke.
Incompatible materials	Incompatible with strong oxidizing agents
Hazardous Reactions	Will not polymerize since the product is supplied as a polymeric coating.

TOXICOLOGICAL INFORMATION

<i>Health Effects</i>	<i>Risk</i>	<i>Di Phenyl Methane 4.4'</i>
	<i>Phrase</i>	<i>Di Isocyanate</i>
Inhalation	20	Not Known
LC ₅₀ rat		
Dermal	21	Not Known
LD ₅₀ rabbit		mgm/kg
Oral	22	> 2000
LD ₅₀ rat		mgm/kg
Acute Oral Toxicity 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 and nausea; continued inhalation may result in unconsciousness and/or death.	

TOXICOLOGICAL INFORMATION (CONTINUED)

Health Effects

Inhalation	The inhalation of vapours may cause acute irritation and sensitization to the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. When sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the Occupational Exposure Limit (OEL). Repeated or prolonged exposure may lead to permanent disability. Other symptoms may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of co-ordination, impaired judgement. Delayed reactions possible (breathing difficulties, coughs, asthma).
Ingestion	Large quantities may cause nausea and vomiting. Harmful. May cause lung damage if swallowed.
Eyes	Irritating to the eyes, including burning sensation, redness, swelling and/or blurred vision.
Skin	Skin may be sensitized on prolonged and repeated exposure. Irritating to the skin and also can 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	No data available

ECOLOGICAL INFORMATION

Environment	May cause long – term adverse effects in the aquatic environment (R53).
Persistence/ Degradability	No data available.
Mobility	No data available
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	NA		
Proper Shipping Name	NA		
Class	NA	Subsidiary Risk	NA
Packing Group	NA		
Emergency Procedures	NA	Initial Emergency Response Guide	NA
HAZCHEM	NA		
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 a Sensitizer.
SUSDP Classification	Classified as a Schedule S 5 Poison.

OTHER INFORMATION

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



Version 2.0
HICH 7510
October 2011