

HiChem Paint Technologies Pty.Ltd.

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Product Use: HICHEM Protecta Seal Knifing Grade Black applied by broad knife or spatula used as a sealer on automotive vehicle surfaces.

HAZARD IDENTIFICATION

The product is classified as **Dangerous Goods** and **Hazardous Substance** in accordance to SAFE WORK AUSTRALIA {HSIS} and GLOBALLY HARMONISED SYSTEM {GHS} criteria.

GHS Requirements

Classification of the substance or mixture
 Flammable liquids – (Category 2)
 Dermal, Inhalation and Eye Irritation – (Category 2)
 Carcinogenic – (Category 1B)
 Acute Toxicity – inhalation dermal, oral (Category 3)
 Environment – Aquatic Organisms

DANGER



H 225
 Highly Flammable Liquid and Vapour



H 302 + H 312 + H 332
 Harmful if swallowed, in contact with the skin and if inhaled



H 320 + H 315 + H 335
 Can cause eye, skin and respiratory irritation.



H 350 + H373
 May cause cancer and may cause damage to organs (ventilation)



H 402 + H 413
 Harmful to aquatic life and may cause long lasting harmful effects to aquatic life

PRECAUTIONARY REQUIREMENTS

General Requirements

P 102 Keep out of reach of children.
 P 103 Read label before use.

Prevention

P 210 Keep away from heat sources, electrical discharges (sparks), naked (open) flames and ignition sources. **NO SMOKING**
 P 233 + P 234 + P 410 Keep original containers tightly closed when not in use and stored in a well ventilated area away from heat and sunlight.
 P 261 Avoid inhaling vapours. Ensure there is adequate ventilation at all times.
 P 264 Wash all exposed skin and hair with warm water and soap after use.
 P 270 When using, do not eat, drink or smoke.
 P 273 Avoid release to the environment including waterways, sewage and drains.
 P 274 The wearing of Personal Protective Equipment including protective clothing, organic vapour respirator, gloves, eye protection and enclosed footwear during the application period.

The following Risk and Safety Phrases have been allocated for this product in accordance with SAFE WORK AUSTRALIA requirements. The Australian Dangerous Goods Code included.

Risk Phrases R

11	Highly Flammable Liquid.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.
40	Limited evidence of a carcinogenic effect
48/20	Danger of serious damage to health by prolonged exposure through inhalation.
52/53	Harmful to aquatic organisms, may cause long term adverse effects to 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.
15/16	Keep away from heat and sources of ignition.
20/21	When using, do not eat, drink or smoke.
23.3	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, and hearing 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]E, Packing Group II, Initial Emergency Response Guide 14.

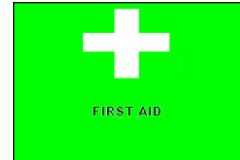
SUSMP Classified as a Schedule S 5 poison.

IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION

Product Name	PROTECT – A – SEAL KNIFING GRADE BLACK		Code	PSK
Ingredients	Name	CAS Number	Proportion w/w	
	Bitumen	8052 – 42 – 4	30 – <60.0 %	
	Encapsulated Crystalline Silicon Dioxide	14807 – 96 – 6	30 – <60.0 %	
	Toluene	108 – 88 – 3	10 – <30.0 %	
	Additives (Non – Hazardous)	Mixture	1.0 – <10.0 %	

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.



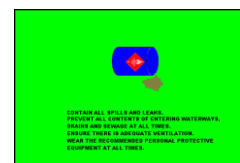
FIRE FIGHTING MEASURES

<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.

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 Standards MAK

Toluene = 190 mg/m³
 Encapsulated Crystalline Silicon Dioxide in Resin = Not Known

Exposure Standards STEL

Toluene = 565 mg/m³

Biological Limited Values Engineering Controls

There are no known Biological Limited Values have been assigned.

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

PERSONAL PROTECTION

Inhalation AS –NZZ 1715/16

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

Eye AS –NZZ 1337

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.

Gloves AS –NZZ 2161

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

Footwear AS –NZZ 2210

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

Clothing AS –NZZ 2919

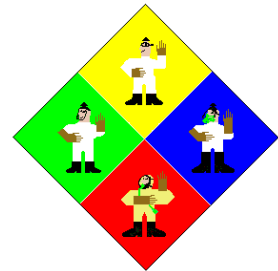
The wearing of anti-static clothing made on natural or synthetic high temperature fibre **should** be worn at all times during the handling and application period

Hearing AS –NZZ 1270

Not required.

Other Requirements

Avoid contact with eyes and skin. Avoid inhaling vapours.



PHYSICAL – CHEMICAL PROPERTIES

Appearance	A black coloured, viscous liquid with a mild odour.	
pH	Not required.	
Vapour Pressure <i>(Butyl Acetate = 1)</i>	Greater than 1	
Boiling Point °C	110 – 120 °C	
Density	1.38 {calculated value}	
Solubility in water	Immiscible	
Flash Point °C	4 °C (literature value)	
Flammability Limits	Lower Explosive Limit = 1.0	Upper Explosive Limit = 8.0
Auto Ignition °C	535 °C (literature value)	
Volatile Organic Compounds VOC	18 % weight/volume	
Volatile Components	Toluene and Ethyl Alcohol	

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, soot and smoke.
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>
Inhalation LC ₅₀ rat	20	20 mgm/L.
Dermal LD ₅₀ rabbit	21	12100 mgm/kg
Oral LD ₅₀ rat	22	640 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 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	Limited evidence of a carcinogenic effect
Mutagenic	Not mutagenic in animal studies
Reproductive Toxicity	No data available.

ECOLOGICAL INFORMATION

<i>Environment</i>	Harmful to aquatic organisms, may cause long term adverse effects to the aquatic environment
<i>Persistence/ Degradability</i>	No data available.
<i>Mobility</i>	No data available
<i>Environment Protection</i>	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

<i>UN number</i>	1263		
<i>Proper Shipping Name</i>	PAINT – immiscible in water.		
<i>Class</i>	3	<i>Subsidiary Risk</i>	Not Required
<i>Packing Group</i>	II	<i>Initial Emergency Response Guide</i>	14
<i>Emergency Procedures</i>	EP 3300		
<i>HAZCHEM Code</i>	3[Y]E		
<i>IMDG</i>	Not Known		



REGULATORY INFORMATION**Regulatory
Information and
Hazard Category
SUSMP
Classification**

The product is classified as Hazardous Substance in accordance to SAFE WORK AUSTRALIA {HSIS} and Globally Harmonised System as Harmful and Irritant.

Classified as a Schedule S 5 Poison.

OTHER INFORMATION**Emergency
Contact
Disclaimer**

Poisons Information Centre 13 11 26

HiChem Paint Technologies
(03) 9796 3400

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