

**HiChem Paint Technologies Pty.Ltd.**

A.B.N. 95 064 139 653  
 73 Hallam South Road, HALLAM, VICTORIA 3803.  
 Telephone : {03} 9796 3400 Facsimile : {03} 9796 4500  
 Email:msdsinfo@hichem.com.au www:hichem.com.au

**IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION**

<b>Product Name</b>	RADIATOR BLACK	<b>Code</b>	RAD
<b>Product Use</b>	Use as a coating applied by spray on automotive vehicle chassis.		
<b>Ingredients</b>	<b>Name</b>	<b>CAS Number</b>	<b>Proportion w/w</b>
	Naphtha (petroleum) hydrosulphurized heavy	64742 – 82 – 1	30 – 60 %
	Ethyl Benzene	100 – 41 – 4	1.0 – <10 %
	Coloured Pigment (non-hazardous)	Not Known	1.0 – <10 %
	Polymeric Glyceryl Phthalate Alkyd Resin	Not Known	10 – <30 %
	Additives (non-hazardous)	Mixture	1.0 – <10 %

**HAZARD IDENTIFICATION**

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

**Risk Phrases R**

- 10 Flammable Liquid  
 20/21/22 Harmful by inhalation, in contact with the skin and if swallowed.  
 36/37/38 Irritating to the eyes, respiratory tract 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 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.  
 23.2 Do not breathe 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 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 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], Packing Group III.

**SUSDP** Classified as a Schedule S 5 poison.

**FIRST AID MEASURES**

<b>Inhalation</b>	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.
<b>Ingestion</b>	If swallow, and only if the person is conscious, give clean water to drink. If any symptoms occur, <b>DO NOT</b> induce vomiting; seek URGENT medical attention if frothing from the mouth occurs.
<b>Eyes</b>	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.
<b>Skin</b>	If skin contact occurs, remove contaminated clothing, and wash thoroughly with soap and plenty of water. Seek medical attention if any irritation occurs.
<b>First Aid Facilities</b>	Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.
<b>Advice to Doctor</b>	If poisoning occurs, consult with the Poisons Information Centre {Telephone <b>13 11 26</b> }. 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**

<b>Extinguishing Media and Requirements</b>	Carbon Dioxide {CO <sub>2</sub> }, alcohol resistant foam, dry chemical or water spray. <b>DO NOT</b> use water jets. Bund area with sand to prevent run – off entering waterways and drains.
<b>Fire Fighting Procedures &amp; Precautions</b>	Fire – fighters <b>must</b> 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.
<b>Flammability</b>	Flammable Liquid. Flash Point = 37 °C
<b>Hazardous Decomposition Products</b>	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide.

**ACCIDENTAL RELEASE MEASURES**

<b>Spills and Leaks</b>	Contain all spills and leaks. Avoid contamination with spilt material on surfaces. Remove all sources of ignition and <b>NO SMOKING</b> . 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.
<b>Disposal</b>	Collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.
<b>Other Precautions</b>	Avoid contaminating waterways, drains, water courses and sewage.



**HANDLING and STORAGE**

<b>Handling</b>	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.
<b>Storage</b>	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**

<b>Exposure Standards</b>	Naphtha (petroleum) hydrosulphurized heavy = 790 mg/m <sup>3</sup> . Ethyl Benzene = 440 mg/m <sup>3</sup> .
<b>Exposure Standards STEL</b>	No data available.
<b>Engineering Controls</b>	The use of local exhaust ventilation equipment is required. All ventilation equipment must be fitted with flame and explosion proof electrical fittings.

**PERSONAL PROTECTION**

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

**PHYSICAL – CHEMICAL PROPERTIES**

<b>Appearance</b>	A coloured liquid with mild odour.	
<b>pH</b>	Not required.	
<b>Vapour Pressure</b> (Butyl Acetate = 1)	Greater than 1.0	
<b>Boiling Point °C</b>	175 – 210 °C {literature value}	
<b>Density</b>	0.82 {calculated value}	
<b>Solubility in water</b>	Immiscible	
<b>Flash Point °C</b>	37 °C {literature value}	
<b>Flammability</b>	Lower Explosive Limit = 1.0 %	Upper Explosive Limit = 3.5 %
<b>Limits</b>		
<b>Auto Ignition °C</b>	250 °C	
<b>Volatile</b>	Organic Solvents	
<b>Components</b>		

**STABILITY and REACTIVITY**

<b>Chemical Stability</b>	Stable under normal conditions of use.
<b>Conditions to avoid</b>	Avoid contact with heat and all ignition sources.
<b>Hazardous decomposition products</b>	On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide.
<b>Incompatible materials</b>	Incompatible with strong oxidizing agents
<b>Hazardous Reactions</b>	Will not polymerize.

**TOXICOLOGICAL INFORMATION**

<i>Health Effects</i>	<i>Risk Phrase</i>	<i>Ethyl Benzene</i>	<i>Naphtha (petroleum) hydrosulphurized heavy</i>
Inhalation LC <sub>50</sub> rat	20	> 20 mgm/L	> 20 mgm/L
Dermal LD <sub>50</sub> rabbit	21	> 2000 mgm/kgm	> 2000 mgm/kgm
Oral LD <sub>50</sub> rat	22	> 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	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.

**OTHER TOXICOLOGICAL INFORMATION****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	Limited evidence of a carcinogenic effect.
Mutagenicity	Not mutagenic in animal studies
Reproductive Toxicity	Does not impair fertility. Causes foetotoxicity in animals at doses which are maternally toxic.

**ECOLOGICAL INFORMATION**

<b>Environment</b>	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**

<b>UN number</b>	1263		
<b>Proper Shipping Name</b>	PAINT, immiscible in water.		
<b>Class</b>	3	<b>Subsidiary Risk</b>	Not Required
<b>Packing Group</b>	III		
<b>Emergency Procedures</b>	3305	<b>Initial Emergency Response Guide</b>	15
<b>HAZCHEM</b>	3[Y]		
<b>IMDG</b>	Not Known		



**REGULATORY INFORMATION**

**SUSDP** Classified as a Schedule S 5 poison.

**OTHER INFORMATION**

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