



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF MATERIAL & COMPANY DETAILS

**Product Name: 292 BITUMINOUS BLACK:**

Company Name: Lacnam Paints Australia  
Address: 78-80 Mandoon Road, Girraween, NSW 2145  
Telephone Number: (02) 9688-1999  
Emergency Number: (02) 9636-5505 (after hours)

### 2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE-DANGEROUS GOODS:  
Classified as hazardous according to criteria of ASCC.  
Classified as dangerous according to Dangerous Good Code.

Xn Harmful  
Xi Irritant

**Risk Phrases:**

R11 Highly Flammable.  
R20/21/22 Harmful by Inhalation, in contact with skin and if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R40 Possible risk of irreversible effects.  
R41 Risk of serious eye damage.  
R43 May cause sensitization by skin contact.  
R52 Harmful to aquatic organisms  
R53 May cause long-term adverse effects in the aquatic environment.  
R65 Harmful: May cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness and cracking.  
R67 Vapours may cause drowsiness and dizziness.

**Safety Phrases:**

S2 Keep out of reach of children.  
S7 Keep container tightly closed.  
S9 Keep container in well ventilated place.  
S13 Keep away from food, drink, and animal feeding stuffs.  
S15 Keep away from heat.  
S16 Keep away from sources of ignition-No smoking.  
S23 Do not breathe gas/fumes/vapour/spray.  
S24 Avoid contact with skin.  
S25 Avoid contact with eyes.  
S26 In case of contact with eyes, immediately rinse with plenty of water and seek medical advice.

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## 2. HAZARDS IDENTIFICATION

S27	Take off immediately all contaminated clothing.
S29	Do not empty into drains.
S33	Take precautionary measures against static discharges.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S43	In case of fire use: Foam, Dry chemical powder, Carbon dioxide, Water spray or fog (for large fires only) as extinguishing media.
S51	Use only in well ventilated areas.
S61	Avoid release to the environment.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this label or can.

**NOTE:** This product contains polycyclic aromatic compounds (PACs). Under conditions of poor personal hygiene and prolonged, repeated contacts, some PACs have been suspected as a cause of skin cancer in humans. Asphalts contain sulphur compounds which may form hydrogen sulphide, a highly toxic gas. Signs and symptoms of overexposure to hydrogen sulphide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness.

## 3. COMPOSITION/INFORMATION OF INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Alkyd Resin	Proprietary	35-55%
Bitumen	8052-42-4	5-10%
Pigments	Proprietary	5-10%
Liquid Hydrocarbons	67442-88-7	5-10%
Liquid Hydrocarbons	Proprietary	5-10%
Liquid Hydrocarbons	64742-95-6	5-10%
Liquid Hydrocarbons	108-88-3	5-10%
Additives	Proprietary	1-5%
Alcohol	71-36-3	0-5%

**Note:** Some bitumen's may contain polycyclic aromatic compounds (PACs), some of which, when made available by dilution and under conditions of poor personal hygiene and prolonged repeated contact, are suspected as a cause of skin cancer in humans.

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## 4. FIRST AID MEASURES

**Eye Contact:** Flush thoroughly with water. If irritation persists call a doctor.

**Skin Contact:** Dry-wipe the skin. Cleanse the contact area with waterless hand cleaner or soap and water as soon as practicable.

DO NOT wear ordinary clothing wet with this product. Remove contaminated clothing and launder before re-use. Discard shoes if material has penetrated to inside surface. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water and see a physician for removal of adhering material and treatment of burn.

**Inhalation:** Remove from further exposure. If respiratory irritation, dizziness, nausea or unconsciousness occurs, seek immediate medical assistance and call an ambulance. If breathing has stopped, use mouth to mouth resuscitation.

**Ingestion:** Rinse mouth with water. Give water to drink. Do not induce vomiting. If vomiting occurs, place person's face downwards, head lower than hips to prevent vomit entering lungs. Seek medical advice.

**First Aid Facilities:** Ensure that an eye wash bath and safety shower, are readily accessible.

**Note to Physicians:** Treat symptoms with reference to specific health effects identified above.

## 5. FIRE FIGHTING MEASURES:

Evacuate immediate area of non-emergency personnel.

Closed containers may explode when exposed to extreme heat

**Extinguishing Media:** Dry Chemical, Foam, CO<sub>2</sub>.

**Special Fire-Fighting Procedures:** Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. Prevent runoff from fire control or dilution from entering waterways, sewers or drinking water supply.

**Special Protective Equipment:** For fires in enclosed areas, fire-fighters must use self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Exposure to fire can generate toxic fumes. Flash Point C (F): -1.0. Flammable limits - LEL NA, UEL NA.

**Hazardous Decomposition Products:** Carbon monoxide, Sulphur oxides and H<sub>2</sub>S.

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## 6. ACCIDENTAL RELEASE MEASURES:

**Notification Procedures:** Report spills as required to appropriate authorities such as the local Environmental Health Officer or Fire Brigade. If spills are likely to enter any drain, waterway or groundwater, contact the Area Water Authority. In case of accident or road spill, contact the Police and Fire Brigade and, if appropriate, the Area Water Authority.

**Procedures if Material is Released or Spilled:** Eliminate all sources of ignition. Wear full protective equipment. Contain and absorb using earth, sand or other inert material, do not use sawdust, this is flammable. Transfer into containers for disposal according to local regulations. Immediately remove all contaminated clothing after containment.

**Environmental Precautions:** Prevent spills from entering storm sewers or drains and contact with soil.

**Personal Precautions:** See Section 8.

## 7. HANDLING AND STORAGE:

Keep containers closed when not in use. Do not load on the same vehicle as Class 1, Class 2.1, Class 2.3, Class 4.2, Class 5.1, Class 5.2 or Class 7.

**Handling:** Trace amounts of Hydrogen Sulphide (H<sub>2</sub>S) may be present. H<sub>2</sub>S may collect in the vapour space of tanks or other enclosed vessels. Keep face clear of openings in storage tanks and transport vehicles. Avoid contact with eyes. Avoid prolonged, repeated skin contact and breathing vapours or mists.

**Storage:** Store in a cool area. See Section 14 for Regulatory information when storing this product.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

No evaluated data available for 292 Bituminous Black:

### Hazardous Components Data:

Chemical Type:	CAS. No	TWA (Refer Section 16)	
		ppm	mg/m <sup>3</sup>
Alkyd Resin (Shell X95)	Proprietary		600
Liquid Hydrocarbon	64742-95-6	55	270
Liquid Hydrocarbon	67442-88-7	100	
Liquid Hydrocarbon	Proprietary	90	480
Liquid Hydrocarbon	108-88-3	50	191
Alcohols	71-36-3	20	61
Bitumen (fumes)	8052-42-4		5

Based on available information on hazardous components of this product, the recommended exposure limit, (TWA) is 25.0/mg/m<sup>3</sup> is suggested.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

**Engineering Controls:** Use local exhaust if oil mists exceed the workplace airborne concentrations of 5mg/m<sup>3</sup>. Use in well ventilated area. Ventilation desirable and equipment should be explosion proof.

**Personal Protection:** Avoid contact with skin and eyes. Wear suitable clothing such as impervious overalls, PVC or Neoprene gloves, and safety goggles. Wear an approved half-face respirator, minimum requirement class A1/P3 filter system, suitable for organic vapour and particles, meeting AS1715/1716. In confined spaces with inadequate ventilation, wear an air-fed face mask.

**Flammability:** Highly flammable. Avoid heat and sources of ignition. Container should be earthed when pouring.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Viscous liquid

Colour: Black

Odour: Mild

Odour Threshold (ppm): Not Established

Boiling Point C: 95-138

Melting Point C (F): NA

Flash Point C: -1.0

Flammability Limits in Air: Lower Limit 1.0% / Upper Limit 7.0%

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Auto-ignition Temperature: 300

Vapour Pressure (Kilopascals): Not Available

Vapour Density (Air=1): Not Available

Explosive Properties: Not Available

Oxidising Properties: Avoid Oxidising Agents

Evaporation Rate: Not Established

Relative Density @ 25°C: 0.90-1.00

Solubility in Water: Immiscible

Viscosity at 40 C, cSt: Not Established

Viscosity at 100 C, cSt: Not Established

Pour Point C: Not Established

Freezing Point C: Not Established

## 10. STABILITY AND REACTIVITY:

**Stability (Thermal, Light, etc):** Stable.

**Conditions to Avoid:** Overheating may result in thermal cracking and produce flammable vapours.

**Incompatibility (Materials to avoid):** Strong oxidisers and water.

**Hazardous Decomposition of Products:** Carbon monoxide. Sulphur oxides and H<sub>2</sub>S.

**Hazardous Polymerisation:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION:

**Acute - Swallowed:** May cause irritation to mouth, throat and digestive tract. Large dose may cause drowsiness and may lead to unconsciousness.

**Acute - Eye:** Irritating to the eyes.

**Acute - Skin:** Irritating to the skin. Has a degreasing action on the skin. Repeated or prolonged skin contact may lead to contact dermatitis and toxic effects.

**Acute - Inhaled:** Vapour may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and, if exposure is prolonged, unconsciousness. Harmful if inhaled.

**Chronic:** Repeated or prolonged exposure to this chemical could result in irregular breathing, collapse and coma, and central nervous system disorders.

## 12. ECOLOGICAL INFORMATION:

Prevent release into the environment.

Do not discharge into sewer or waterways.

May cause adverse effects to marine organisms.

May cause adverse effects to marine environment.

## 13. DISPOSAL CONSIDERATIONS:

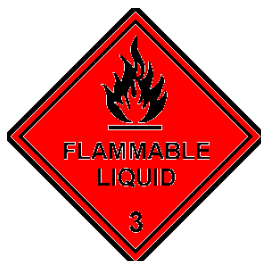
The product is suitable for processing by an approved recycling facility or can be disposed of at any licensed waste disposal site. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

Refer to State Land Waste Management Authority. Advice flammable nature of product.

Normally suitable for incineration by approved agent.

Recycle containers if possible, or dispose of in authorised landfill.

## 14. TRANSPORT INFORMATION:



Classified as Dangerous Goods by criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

### AUSTRALIAN ACTDG:

**Product Name:** 292 Bituminous Black

**Other Names:** Paint

**Manufacturer's Product Code:** 292

**UN Number:** 1993

**Packaging Group:** II

**Dangerous Goods Class & Subsidiary Risk:** 3

**Hazchem Code:** 3[Y]E

**Use:** Protection for steel

Do not load on the same vehicle as Class 1, Class 2.1, Class 2.3, Class 4.2, Class 5.1, Class 5.2 or Class 7.

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## 15: REGULATORY INFORMATION:

**Governmental Inventory Status:** All components comply with US TSCA and Australian AICS.

### Australian Classifications:

UN Number: 1993  
HAZCHEM Code: 3(Y)  
Dangerous Goods Class/Subsidiary Risk: 3  
Packaging Group: PG II  
AS 1940 Class: PGII  
Poisons Schedule: S5

### EC Labelling:

Symbol: Xn Harmful

### Risk Phrase(s): R10-40-38

Flammable, Possible risk of irreversible effects, Irritating to skin.

### Safety Phrase(s): S24

Avoid contact with skin.

**Contains:** Aromatic oils. Straight-run kerosene.

### THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
BITUMEN	8052-42-4	6

### REGULATORY LISTS SEARCHED

1= IARC 1 2= IARC 2A 3= IARC 2B 4= NTP CARC 5= NTP SUS  
6= ACGIH 7= ACGIH CARC 8= ACGIH SUS

CARC = CARCINOGEN: SUS = SUSPECTED CARCINOGEN: TERAT = TERATOGENIC

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## 16: OTHER INFORMATION:

**USE:** ASPHALT

NOTE: THIS PRODUCT IS NOT FORMULATED TO CONTAIN PCBS.

**TWA:** Exposure standard-time weighted average; the average airborne concentration of a particle substance when calculated over a normal eight hour working day, for a five day week.

**ppm:** Parts of vapour or gas per million parts of contaminated air by volume.

**mg/m<sup>3</sup>:** Milligrams of substance per cubic metre of air at 25°C and one atmosphere pressure. When entry is in this column only the value is exact; when listed with a ppm value, it is approximate.

## CONTACT POINT

Technical Manager	- Working hours	(02) 9688-1999
	- After hours	(02) 9636-5505

Although this information is presented in good faith and compiled from various sources believed to be accurate, Lachnam Paints make no representations or warranty as to the completeness or accuracy thereof. As the product's performance and suitability depends on various factors, the purchasers of our products should determine for themselves whether the product is suitable for their particular use.

**Hazardous according to criteria of Australian Safety Compensation Council**