

# Material Safety Data Sheet

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Durotech Bitumen Primer

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Classified as **Hazardous** according to criteria of ASCC<sup>1</sup> and **Dangerous Goods** according to the ADG<sup>2</sup> Code

UN NO.....:	1999	D.G. Class.:	3	Pack. Group...:	III
HAZCHEM:	2W	SUB. RISK.:	None allocated	SUSDP.....:	5

**PROPER SHIPPING NAME:** TAR, LIQUID

**PRODUCT USE:** Coating material.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Bitumen	8052-42-4	40-60
Mineral turpentine	9005-90-7	40-60

See Section 8, Exposure Controls / Personal Protection

## 3. HAZARDS IDENTIFICATION

**Flammable**  
**Harmful if swallowed.**  
**Irritating to eyes and skin.**  
**Harmful: may cause lung damage if swallowed.**

## 4. FIRST AID MEASURES

**Eyes:** Immediately flush with water for 15 minutes. Get medical attention if irritation develops or persists.  
**Skin:** Take off all contaminated clothing. Wash contaminated area with soapy warm water. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

reuse.

**Inhalation:** Remove to fresh air. Apply resuscitation if victim is not breathing. Give oxygen if breathing is difficult. Get medical attention.

**Ingestion:** Consult a doctor immediately. DO NOT induce vomiting. Aspiration into lungs via vomiting can be fatal. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. A decision to induce vomiting should only be made by a physician.

## 5. FIRE FIGHTING MEASURES

Flash Point .....	52 °C closed cup
Auto-ignition Temperature .....	>450 °C
Lower Explosive Limit .....	1
Upper Explosive Limit .....	7

Closed containers may explode when exposed to extreme heat (fire). This product will emit flammable vapours if exposed to extreme heat. Will produce toxic fumes when burning.

**FLAMMABILITY** - The product is flammable and may be ignited by flame, sparks or non-flameproof electrical equipment at temperatures above its flash point. Do not use close to ignition sources or unventilated areas.

**FIRE EXTINGUISHING MEDIA** -Dry chemical, foam, carbon dioxide, and water fog.

**SPECIAL FIRE FIGHTING PROCEDURES**- As for Cutback Bitumen. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to cool exposed containers. Avoid spreading burning liquid with water spray. Stay up-wind and fight fire from a safe distance. Prevent spillage from entering drains or watercourses.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** - Vapours are heavier than air and may travel back to source of ignition (electrical equipment, sparks, pilot lights etc.). Containers exposed to heat may explode. Vapours may form explosive mixtures with air. Bitumen products give off dense vapours when heated strongly. Vapours may cause headaches, dizziness, irregular breathing and confusion when inhaled.

## 6. ACCIDENTAL RELEASE MEASURES

**CAUTION: Flammable liquid.** Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low areas. Shut off leaks, if possible without personal risks. Eliminate all sources of ignition. Vapours may travel long distances to source of ignition (electrical equipment, sparks, pilot lights etc.). Ensure adequate ventilation. Wear appropriate personal protective equipment including gloves and safety glasses. Do not breathe vapour. Contain spill. Do not allow into drains or waterways.

**Small Spills:** Take precautions against static discharge. Use non-sparking tools. Take up with inert absorbent material (e.g. sand, dirt, or vermiculite). DO NOT use sawdust. Fill into marked, sealable containers for disposal. Dispose of empty containers in accordance with federal, state and local laws.

**Large Spills:** Notify Emergency Services and advise nature of spill and material hazard. Isolate area. Eliminate all sources of ignition. Vapours may travel long distances to source of ignition (electrical equipment, sparks, pilot lights etc.). Ensure adequate ventilation.

## 7. HANDLING AND STORAGE

**Class 3 Flammable Liquid** – Transport and store in accordance with Dangerous Goods requirements. Store away from combustible materials, excessive heat and sources of ignition. Store away from oxidizing agents, strong acids and alkalis. All equipment and containers must be earthed to avoid static discharge. Use in a well-ventilated area. Avoid breathing vapour and contact with skin and eyes. Wear gloves, long sleeved shirt, and eye protection. Keep containers tightly closed and store in a cool, well-ventilated area.

**Handling** – Avoid inhaling vapour and/or mists. Avoid contact with skin, eyes, and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Handling Temperature: Ambient.

**Storage** - Must be stored in a well- ventilated area, away from sunlight, ignition sources and other sources of heat. Keep away from oxidizing agents. The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Storage Temperature: Ambient.

**Empty container warning** – Do not reuse empty drums or containers. Do not cut, drill, grind or weld on or near empty containers.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Exposure Limit Information

Component	NOHSC <sup>1</sup>			
	TWA		STEL	
	(ppm)	(mg/m <sup>3</sup> )	(ppm)	(mg/m <sup>3</sup> )
Bitumen fumes	-	5	-	a
Mineral turpentine	-	480	-	a

a = not listed

TWA = Time Weighted Average

STEL= Short term Exposure Limit

<sup>1</sup> National Occupational Health and Safety Commission (Australia)

### Respiratory Protection

In case of vapours or dust, a respiratory protection program meeting Australian and New Zealand Standards AS/NZS-1716 and AS/NZS -1715 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in "Exposure Limit Information"

### Eye Protection

Use chemical splash goggles (Australian and New Zealand Standards AS/NZS-1337) or approved equivalent. Eye protection worn must be compatible with respiratory protection system employed.

### Hand Protection

Chemical resistant gloves and protective clothing as necessary to prevent skin contact.

### Engineering Controls (Ventilation)

Use explosion-proof local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations. Refer to Australian Standard AS-1668.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance and colour .....	Black, viscous
State .....	Liquid
Odour Characteristic .....	Hydrocarbon
pH .....	6-7
Viscosity .....	Not specified
Specific Gravity (Water = 1) .....	0.92
Vapour Density (Air = 1) .....	4
Vapour Pressure .....	0.2 kPa
Melting Point .....	Not specified
Boiling Point .....	150 °C
Solubility in Water .....	Insoluble
Flash Point .....	52 °C closed cup

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## 10. STABILITY AND REACTIVITY

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Considered stable under normal conditions of use and handling.

### Hazardous decomposition products

Oxides of carbon. Decomposition by heat may give off toxic and irritating fumes.

### Materials to avoid

Oxidising agents.

### Conditions to avoid

Heat, flame and other sources of ignition.

### Hazardous Polymerisation

Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### **ACUTE:**

**SWALLOWED:** Ingestion of material may cause gastrointestinal disturbance, including irritation, nausea and vomiting.

**EYES:** Direct eye contact may cause irritation and or corneal changes.

**SKIN:** Contact with skin may result in skin reactions.

**INHALATION:** Inhalation of vapours may cause headaches and/or dizziness. Overexposure to vapour may result in respiratory tract irritation.

**CHRONIC:** Overexposure to high vapour concentration may cause irregular breathing, collapse and coma

**TERATOGENICITY:** 25 ml/kg Nil Reported

**REPRODUCTIVE TOXICITY:** Reproductive effector in rats

**CARCINOGENICITY:** NOT classifiable as to its carcinogenicity to humans. Category: 2B

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## 12. ECOLOGICAL INFORMATION

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Keep out of waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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Containers hazardous when emptied. Flammable vapour remains in containers until professionally cleaned. Do not cut or drill on or near empty containers. Dispose of empty containers in accordance with federal, state and local laws.

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## 14. TRANSPORT INFORMATION

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**Classified as Class 3 Dangerous Goods** according to the Australian Code For The Transport Of Dangerous Goods By Road And Rail (Seventh Edition). See Section 1.

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## 15. REGULATORY INFORMATION

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### **Workplace Labelling Requirements:**

According to Criteria of the Australian Safety and Compensation Council

### **Risk Phrases**

R10 Flammable.

R22	Harmful if swallowed.
R37/38	Irritating to respiratory system and skin.
R65	Harmful: may cause lung damage if swallowed.

**Safety Phrases**

S16	Keep away from sources of ignition – no smoking.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

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**16. OTHER INFORMATION**

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<sup>1</sup> Australian Safety and Compensation Council

<sup>2</sup> Australian Dangerous Goods Code – Seventh Edition

The advice and information contained herein is based on raw material supplier's information. Durotech Industries believe the information to be accurate and reliable as at the date supplied, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability, or completeness of the advice and information. Durotech Industries urges persons receiving this advice and information to make their own determination as to the advice and information's suitability and completeness for their own particular situation.

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