

Material Safety Data Sheet

INDUSTRIAL GRADE BITUMEN BULK

Classified as non hazardous according to criteria of NOHSC.

Bituminous Products Pty Ltd
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Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: Industrial Grade Bitumen **UN No.:** 3257 (when hot)
OTHER NAMES: 115/15, 105/15, 90/18, 85/30, AS118, Blown Bitumen **DANGEROUS GOODS**
CLASS: 9
POISONS SCHEDULE: Not applicable **SUB RISK:** None Allocated
MAJOR USES: Industrial Grade Bitumen **PACKAGING GROUP:** III
METHOD OF APPLICATION: Not applicable **HAZCHEM:** 2W
MANUFACTURER'S PRODUCT CODE: Industrial Grade Bitumen

Section 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION:

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This product can be delivered, stored and used at temperatures above 150 °C.
Contact with hot product will cause severe burns.

Molten form:

RISK PHRASES:

R34	Causes burns.
R37	Irritating to respiratory system.
R41	Risk of serious eye damage.

Molten form:

SAFETY PHRASES:

S23	Do not breathe gas/fumes and vapour
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
BITUMEN OXIDISED	[64742-93]	100 %

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Section 4: First Aid Measures

SWALLOWED:	Do not induce vomiting. SEEK MEDICAL AID.
EYES:	Flush thoroughly with water for at least 15 minutes. IF IRRITATION PERSISTS, SEEK MEDICAL AID.
SKIN:	Wash skin thoroughly with soap and water. Apply a broad spectrum UV block out cream.
INHALATION:	Vapours are only emitted from hot bitumen. If this does occur, remove from exposure. IF ADVERSE EFFECTS OCCUR SEEK MEDICAL AID.
FIRST AID FACILITIES:	First Aid kit to be located on site at all times.
ADVICE TO DOCTOR:	Treatment should be directed at the control of symptoms/conditions.

Section 5: Fire Fighting Measures

FIRE AND EXPLOSION HAZARD:

This product is combustible and may ignite if overheated. Dense fumes are given off from burning material, which may cause headaches, dizziness and irregular breathing if inhaled.

FLAMMABILITY Not flammable under manufactures recommended conditions of use.

HAZCHEM CODE 2W

FIRE EXTINGUISHING MEDIA Foam dry chemical, carbon dioxide and water fog.

SPECIAL FIRE FIGHTING PROCEDURES **Do not apply water jet to hot bitumen.**
Water will expand hot bitumen very rapidly as the water converts to steam.

UNUSUAL FIRE AND EXPLOSION HAZARDS 3T1 Hazchem Emergency Action Code

Section 6: Accidental Release Measures

STEPS TO TAKE TO MINIMISE A SPILL OR LEAK

- Do NOT allow the product to enter drains or watercourses.
- Clean up crews should wear protective clothing i.e., PVC gloves, safety shoes, eye protection.

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- Stay upwind; remove any source of ignition.
- For small and large spills, allow to cool and solidify. Molten material should be contained with a sand dam.

Section 7: Handling and Storage

**DANGEROUS GOODS CLASS: 9
Allocated**

PGIII

SUB RISK: None

When product is transported in bulk, transport should be in accordance with the Australian code for the transport of dangerous goods by road and rail.

Section 8: Exposure Controls, Personal Protection

EXPOSURE STANDARDS:

Bitumen work safe exposure standards for bitumen fumes TWA = 5mg/m³

ENGINEERING CONTROLS:

- Process modification to eliminate substance ñ Not Applicable
- Segregation of processes from personnel and/or distance ñ When used in molten form, keep non essential personnel at a safe distance.
- Vessel Containment Controls ñ Not Applicable
- Enclosure of sources of substances to the maximum extent possible - Not Applicable
- Mechanical handling to reduce human contact with substance ñ The use of forklifts to load/unload drums and/or pallets should be used whenever possible.
- Is a Local Exhaust Ventilation System required? When used in molten form in doors, an extraction system may be required.
- Dilution Ventilation - In open areas mechanical ventilation is not normally required. In enclosed areas, provide sufficient dilution exhaust ventilation to minimize exposure limits and flammable vapour concentrations.

PERSONAL PROTECTION:

Respiratory protection – In confined and/or poorly ventilated areas, a respirator suitable for organic vapours should be used. Air supplied respirators should be used in areas with inadequate oxygen and high vapour concentration.

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Glove type - Leather gloves and apron should be used when handling material under high temperature.

Eye protection - Use close fitting chemical safety goggles, otherwise use safety glasses fitted with side shields. If splashing is possible use a face shield over safety glasses as added protection.

Clothing protection - Wear industrial-type work clothing and safety footwear and apron when handling material under high temperature..

Section 9: Physical and Chemical Properties

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE:	Black ñ solid at ambient temperature
PACK SIZE(S):	Bulk
BOILING POINT (°C):	> 400°C
MELTING POINT (°C):	> not applicable
SOFTENING POINT (°C):	115/15 = 115°C
	105/15 = 105°C
	AS118 = 100°C
	90/18= 90°C
	85/30 = 85°C
VAPOUR PRESSURE (KILOPASCALS):	< 1mm Hg at 180°C
SPECIFIC GRAVITY @ 25°C:	1.00
SOLUBILITY IN WATER (% BY WT.):	Insoluble
FLASH POINT (°C)-METHOD:	> 260°C Closed Cup
FLAMMABILITY LIMITS IN AIR (% VOLUME):	LOWER UPPER
	Not applicable Not applicable

Section 10: Stability and Reactivity

SHOCK SENSITIVITY:	Not Applicable	CORROSIVENESS:	Not applicable
OXIDISING PROPERTIES:	Not applicable	REACTIVITY:	Stable
AUTOIGNITION TEMPERATURE:	280°C	ODOUR THRESHOLD:	Not applicable
VAPOR DENSITY (AIR=1) =	Not applicable	BULK DENSITY:	Not applicable
pH.:	Not applicable		
EVAPORATION RATE (BUTYLACETATE=1):	Not applicable		
SOLUBILITY in ORGANIC SOLVENTS:	Soluble		
% VOLATILE ORGANIC COMPOUNDS:	Nil		

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Section 11: Toxicological Information

HEALTH EFFECTS:

Non Toxic in solid form. Certified under AS 4020 as suitable for contact with potable water.

The greatest risk is the possibility of skin burns as these products are used at temperatures of 180°C to 195°C. Hydrogen Sulphide emission in vapours may occur in enclosed spaces, but risk is minimal in open spaces.

ACUTE:

SWALLOWED:	If swallowed, vapours may irritate the throat.
EYES:	Direct eye contact may cause irritation.
SKIN:	Contact with skin may cause irritation.
INHALATION:	Inhalation of vapours may irritate the throat.
CHRONIC:	Repeated skin contact may cause dermatitis.

Section 12: Ecological Information

Do not allow product to enter waste water, rivers or creeks.

Section 13: Disposal Considerations

WASTE DISPOSAL METHOD

Wherever possible, reprocess or recycle any reclaimed material to reduce waste.
The material may be disposed of in conformity with the requirements of the Regulatory Authorities.

Section 14: Transport Information

Road and Rail Transport:

UN Number: 3257,

Proper Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S.

Hazchem Code: 2W

Special Provisions: No special provisions specified.

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Dangerous Goods Class: Class 9, Miscellaneous Dangerous Goods.

Packaging Group: III

Section 15: Regulatory Information

Australian Dangerous Goods Code

Classification: 9

SUSDP

Poisons Schedule: None

Section 16: Other Information

Contact Person: General Manager, Bituminous Products Pty Ltd
02 9772 4433
After hours 0414 499 402

This Material Safety Data Sheet has been compiled in accordance with the Worksafe Australia National Code of Practice for the preparation of Material Safety Data Sheets {NOHSC: 2011 (2003)}.

Where applicable specific chemical composition details are provided to allow the product to be classified according to UN Number, HAZCHEM coding etc.

The information contained herein is based on the data available to BITUMINOUS PRODUCTSPTY LIMITED from both our technical sources and from recognized published references and is believed to be both accurate and reliable.

BITUMINOUS PRODUCTSPTY LTD has made no effort to censor nor to conceal deleterious aspects of this product. Since we cannot anticipate or control the many different conditions under which this information and our products may be used, each user should review these recommendations in the specific context of the intended application and confirm whether they are appropriate.

Due care should be taken to make sure that the use or disposal of the product is in compliance to the appropriate Federal, State, and Local Government regulations.

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END OF MSDS