

# Material Safety Data Sheet

Page: 1 of 4

Infosafe No. LPUNM Issue Date : August 2005 ISSUED by SHELLNZ

Product Name : SHELL BITUMEN CUTBACK (7-10%)

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**Product Name** SHELL BITUMEN CUTBACK (7-10%)  
**Company Name** Shell New Zealand Limited  
**Address** 3 Queens Wharf Wellington  
New Zealand  
**Emergency Tel.** 0800 474 355  
**Telephone/Fax Number** Tel: 0800 474 355 Fax: 0800 743 553  
**Recommended Use** Road sealing.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as Hazardous according to the Hazardous Substances (Classification) Regulation 2001.  
Hazard Classification:  
3.1D, 9.1C  
**Risk Phrase(s)** R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**Safety Phrase(s)** S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Bitumen	Mixture	60-100 %
	Hydrocarbon solvent	-	7-10 %

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person from contaminated area and if irritation persists, seek medical advice. If not breathing apply artificial respiration and seek urgent medical advice.  
**Ingestion** If swallowed, do NOT induce vomiting. Wash out mouth with water. Seek medical attention.  
**Skin** If hot bitumen contacts skin, immediately cool with water and seek IMMEDIATE medical attention. Ensure contaminated clothing is washed before re-use or discard. If irritation develops, seek medical attention.  
**Eye** Flood eyes with plenty of water, holding eyelid(s) open. If irritation due to fumes develops and persists, seek medical attention. If hot bitumen contacts eyes wash with copious amounts of water, holding eyelid(s) open, and seek IMMEDIATE medical attention.  
**First Aid Facilities** Eye wash station and normal washroom facilities.  
**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Use foam, carbon dioxide or dry chemical to extinguish fire.  
**Hazards from Combustion Products** Combustion products include oxides of carbon.  
**Specific Hazards** Keep away from naked flames, sparks and other sources of ignition.  
**Hazchem Code** 2W  
**Precautions in connection with Fire** Fire fighters should wear full protective clothing and self-contained breathing apparatus.  
**Unsuitable Extinguishing Media** Do not use water as a jet.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent, non-combustible material

# Material Safety Data Sheet

Page: 2 of 4

Infosafe No. LPUNM Issue Date : August 2005 ISSUED by SHELLNZ

Product Name : SHELL BITUMEN CUTBACK (7-10%)

onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container for subsequent disposal. Dispose of waste according to the Environmental Protection Authority (EPA), federal, state and local regulations. If large quantities of this material enter the waterways contact the EPA, or your local Waste Management Authority.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Use in a well ventilated area. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with large quantities, repeated or prolonged skin exposure without protection should be prevented in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for Safe Storage** Store away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do not allow water to contact hot bitumen due to danger of boil over.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** No value assigned for this specific material by the Workplace Exposure Standards (WES).

However for the constituents the following applies:  
Asphalt (petroleum) fumes: TWA 5 mg/m<sup>3</sup> (WES)

**Biological Limit Values** No biological limit allocated.

**Engineering Controls** Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

**Respiratory Protection** If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

**Eye Protection** Safety glasses with side shields or face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances ie. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.

**Hand Protection** Impervious gloves recommended. Final choice of appropriate gloves will vary according to individual circumstances ie. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.

**Body Protection** Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Black liquid.

**Odour** Petroleum solvent odour.

**Melting Point** Not available.

**Boiling Point** 147-199°C for solvent content

**Solubility in Water** Insoluble.

**Specific Gravity** Not available.

# Material Safety Data Sheet

Page: 3 of 4

Infosafe No.	LPUNM	Issue Date : August 2005	ISSUED by SHELLNZ
--------------	-------	--------------------------	-------------------

Product Name : **SHELL BITUMEN CUTBACK (7-10%)**

---

<b>pH Value</b>	Not applicable.
<b>Vapour Pressure</b>	3.2 mmHg @ 15°C for solvent content.
<b>Flash Point</b>	>60.5°C
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	0.9%
<b>Flammable Limits - Upper</b>	8%

---

## 10. STABILITY AND REACTIVITY

---

<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Oxides of carbon.
<b>Hazardous Reactions</b>	Hazardous reaction with strong oxidising agents.

---

## 11. TOXICOLOGICAL INFORMATION

---

<b>Toxicology Information</b>	No toxicity data available for this product.
<b>Inhalation</b>	Vapours or mists generated in confined and/or poorly ventilated areas, may cause respiratory system irritation, headache, nausea and dizziness.
<b>Ingestion</b>	May cause irritation of the gastrointestinal system. Symptoms may include nausea, vomiting and diarrhoea. Hot bitumen will cause severe burns.
<b>Skin</b>	May cause irritation in contact with the skin, which can result in redness, itchiness, drying and defatting of the skin that can lead to dermatitis. Hot bitumen will cause severe burns.
<b>Eye</b>	When exposed to fumes, eye contact may cause slight to moderate eye irritation, symptoms including redness, excessive tearing, stinging and swelling. Hot bitumen will cause severe eye burns.
<b>Chronic Effects</b>	Prolonged and/or repeated skin contact with this product may cause drying and defatting, possibly leading to dermatitis. Possible risk of irreversible effects.

---

## 12. ECOLOGICAL INFORMATION

---

<b>Ecotoxicity</b>	Harmful to the aquatic environment.
<b>Persistence / Degradability</b>	No data available for this specific material.
<b>Mobility</b>	No data available for this specific material.
<b>Environ. Protection</b>	Do not allow product to enter drains, waterways or sewers.

---

## 13. DISPOSAL CONSIDERATIONS

---

<b>Disposal Considerations</b>	Dispose of used absorbent in an approved landfill or municipal tip in accordance with local regulations.
--------------------------------	--

---

## 14. TRANSPORT INFORMATION

---

<b>U.N. Number</b>	3256
<b>Proper Shipping Name</b>	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. - (CONTAINS BITUMEN)
<b>DG Class</b>	3
<b>Sub.Risk</b>	#
<b>Hazchem Code</b>	2W
<b>Packaging Method</b>	3.8.3
<b>Packing Group</b>	III
<b>IERG Number</b>	15

# Material Safety Data Sheet

Page: 4 of 4

Infosafe No.	LPUNM	Issue Date : August 2005	ISSUED by SHELLNZ
--------------	-------	--------------------------	-------------------

Product Name : **SHELL BITUMEN CUTBACK (7-10%)**

---

## 15. REGULATORY INFORMATION

---

**Regulatory Information** This product is classified as a 3.1D - Flammable liquid, High Hazard, according to the Hazardous Substances (Classification) Regulation 2001. This product is classified as a 9.1C - Substances that are harmful in the aquatic environment, according to the Hazardous Substances (Classification) Regulation 2001.

**Hazard Category** Dangerous for the environment

---

## 16. OTHER INFORMATION

---

**Date of preparation or last revision of MSDS** MSDS Creation: August 2005.

MSDS  
...End Of MSDS...