



NURAFLEX/PREMSEAL PRIMER

June 2008

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS

Company	Nuralite Waterproofing Ltd
Address	53a Victoria Street, Onehunga, Auckland
Telephone	09 579 2046
Facsimile	09 579 5136
Email	info@nuralite.co.nz

IDENTIFICATION

Product Code	Bitseal
Proper Shipping Name	Bitumen Cut-Backs
Un Number	1999
Dangerous Goods Class	3
Subsidiary Risk	
Hazchem Code	2w
Packaging Group	ii

PHYSICAL DATA

Appearance:	Black Paint like Liquid.
Boiling Point °C:	148 – 194
Vapour Pressure @ 25°C, MmHg	.3
Vapour Density (Air=1)	>1
Flash Point, °c By PMCC	38 (ASTM D56, TCC)
Solubility In Water,% Mass	Insoluble

INGREDIENTS

<u>Component</u>	<u>Proportion (% mass)</u>
HAWS (High aromatic white spirit)	>40
Bitumen	>50

HEALTH HAZARD DATA

HEALTH EFFECTS

Swallowed	Acute oral LD50 (rat) expected to be above 2000. Do not induce vomiting. Give nothing by mouth. Mg/kg. Aspiration into the lungs may cause chemical pneumonitis which can be fatal. Do not induce vomiting. Give nothing by mouth. Seek medical attention.
Eye	Not irritating. May cause transitory pain. Flush affected eye thoroughly for at least 15 minutes.
Skin	Not a skin sensitizer. Prolonged contact can cause defating which can lead to dermatitis. Wash skin with soap and water.
Inhalation	Acute inhalational LC50 (rat) expected to be >5 mg/1. May cause headache, dizziness, nausea and narcosis. Remove to fresh air. If rapid recovery does not occur, obtain medical attention.

SAFE HANDLING INFORMATION

FIRE & EXPLOSION DATA

Hazard	Flammable liquid. Vapour accumulation could flash and/or explode if ignited.
Extinguishing Media	Foam, Dry Chemical, Water Spray.
Special Fire Precautions	Fire fighters must use recommended protective equipment and self-contained breathing apparatus.

SPILLS AND DISPOSAL

Spills Evacuate spill area and eliminate all ignition sources. Report spill to fire brigade. If possible remove leaking containers to a detached area wearing approved respirator and personal protection equipment. Bund spill area with inert material.

Disposal Dispose of waste at an appropriate waste disposal facility in accordance with local authority bylaws.

PRECAUTIONS FOR USE

Engineering Controls Use only in well ventilated area.

Flammability Flammable. In use may form flammable/explosive vapour-air mixture.

Miscellaneous Avoid prolonged or repeated contact with skin. Do not breathe spray/mists. Take precautionary measures against static discharges. Earth all equipment

STORAGE

Store away from heat and open flames. Store at ambient temperatures. Keep containers tightly closed and in a well ventilated place

PERSONAL PROTECTION

Normal Operation

Respiratory	Required – half mask respirator with organic vapour cartridge with built-in particulate filter NPF20 (gas only).
Eye	Required – chemical monogoggles
Skin	Required – PVC gloves, chemical resistant safety shoes or boots and standard issue work clothes.

Spillage

Avoid contact with skin and eyes. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. No smoking. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risks.

OTHER INFORMATION

Biodegradability No



NURASEAL

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IDENTIFICATION

Product Name	Nuraseal
UN Number (ADR/RID/ADN)	1866
UN No. (IMDG)	3
Use/Applications	Waterproofing below ground

PHYSICAL DATA

Solubility	Insoluble in water
Appearance	Viscous Liquid
Colour	Brown
Odour	Petroleum
Initial boiling point and range (°C)	Not determined
Melting point (°C)	Not determined
Relative density	0.85
Bulk Density	Not determined
Vapour density (air=1)	Not determined
Vapour pressure	Not determined
Evaporation rate	Not determined
Evaporation Factor	Not determined
pH-Value, Conc. Solution	Not determined
pH-Value, Diluted Solution	Not determined
Viscosity	Not determined
Solubility Value (G/100G H ₂ O@20°C)	Not determined
Decomposition temperature (°C)	Not determined
Odour Threshold, Lower	Not determined

Odour Threshold, Upper	Not determined
Flash point (°C)	Not determined
Auto Ignition Temperature (°C)	Not determined
Flammability Limit - Lower(%)	Not determined
Flammability Limit - Upper(%)	Not determined
Partition Coefficient(N-Octanol/Water)	Not determined
Explosive properties	Not determined
Other Flammability	Not determined
Oxidising properties	Not determined

HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (1999/45/EEC) N;R51/53

Environment

The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment

Label elements

Contains:

SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.; STRAIGHT RUN KEROSENE

Labelling:

Dangerous for the environment



Risk Phrases:

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards

This product does not contain any PBT or vPvB substances.

COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.; STRAIGHT RUN KEROSENE
50-70%

CAS-No.: 64742-88-7
Classification (EC 1272/2008)
Asp. Tox. 1 - H304

EC No.: 265-191-7
Classification (67/548/EEC)
Xn;R65

REACTIVITY DATA

Reactivity	Reacts violently with strong oxidising substances.
Chemical stability	Stable under normal temperature conditions and recommended use
Possibility of hazardous reactions	Not determined
Conditions to avoid	Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition
Incompatible materials: Materials To Avoid	Strong oxidising substances
Hazardous decomposition products: When heated, vapours/gases hazardous to health may be formed	

HEALTH HAZARD DATA

HEALTH EFFECTS

Ingestion	Ingestion of large amounts may cause unconsciousness
Inhalation	Dizziness
Skin Contact	Severe irritation
Eye Contact	May cause blurred vision and serious eye damage

FIRST AID

Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing
Ingestion	Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!
Inhalation	Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention

SAFE HANDLING INFORMATION

FIRE- FIGHTING MEASURES

Extinguishing media:

Extinguish with foam, carbon dioxide or dry powder

Special hazards arising from the substance or mixture:

Hazardous combustion products

During fire, toxic gases (CO, CO₂) are formed.

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE!

Specific hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures

Advice for firefighters:

Special Fire Fighting Procedures

Use supplied air respirator if product is involved in a fire. Beware, risk of formation of toxic and corrosive gases

Use special protective clothing. Regular protection may not be safe

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire

ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Exposure Controls

Environmental precautions

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body

Methods and material for containment and cleaning up

Collect with absorbent, non-combustible material into suitable containers

HANDLING AND STORAGE

Precautions for safe handling

Read and follow manufacturer's recommendations

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep away from heat, sparks and open flame.

Storage Class

Chemical storage

Specific end use(s)

The identified uses for this product are detailed under "Identification"

EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Name SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.; STRAIGHT RUN KEROSENE

STD OES
TWA – 8 Hrs 100ppm

Ingredient Comments

WEL = Workplace Exposure Limits

Exposure controls

Protective equipment

Gloves and eye protection

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit

Hand protection

Use protective gloves

Eye protection

Use approved safety goggles or face shield

Other Protection

Wear suitable protective clothing as protection against splashing or contamination

Skin protection

Wear apron or protective clothing in case of contact

TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50) Not determined

Acute Toxicity (Dermal LD50) Not determined

Acute Toxicity (Inhalation LC50) Not determined

Respiratory or skin sensitisation:

Respiratory sensitization Not determined

Skin sensitization Not determined

Germ cell mutagenicity:

Genotoxicity - In Vitro Not determined

Genotoxicity - In Vivo Not determined

Carcinogenicity:

Carcinogenicity Not determined

Reproductive Toxicity:

Reproductive Toxicity – Fertility Not determined

Reproductive Toxicity –

Development Not determined

Specific target organ toxicity - single exposure:

STOT - Single exposure Not determined

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure Not determined

Aspiration hazard:

Viscosity Not determined

Inhalation

May cause irritation to the respiratory system

Ingestion

May cause nausea, headache, dizziness and intoxication. Swallowing concentrated chemical may

	cause severe internal injury. Harmful: may cause lung damage if swallowed
Skin contact	Repeated exposure may cause skin dryness or cracking
Eye contact	May cause severe irritation to eyes
Health Warnings Exposure:	This chemical has good warning properties
Target Organs	No specific target organs noted

ECOLOGICAL INFORMATION

Ecotoxicity:	Dangerous for the environment: May cause long-term adverse effects in the aquatic environment
Toxicity:	Acute Fish Toxicity Very toxic to aquatic organisms
Persistence and Degradability:	Degradability The product is biodegradable
Bioaccumulative potential:	No data available on bioaccumulation
Partition coefficient:	Not determined
Mobility in soil Mobility:	The product is insoluble in water
Results of PBT and vPvB assessment:	This product does not contain any PBT or vPvB substances
Other adverse effects:	Not determined

DISPOSAL CONSIDERATIONS

General information:
Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority

Waste treatment methods:
Environmental manager must be informed of all major spillages. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions

TRANSPORT INFORMATION

General	Full protective clothing should be worn when handling this product
Road Transport Notes	Avoid releasing to the environment
Rail Transport Notes	Avoid releasing to the environment
Sea Transport Notes	Do not release into the environment
Air Transport Notes	Cargo aircraft only
UN proper shipping name	Not known
Transport hazard class(es)	IMDG Class III
Packing group	Not known
Environmental hazards	Environmentally Hazardous Substance/Marine Pollutant
Special precautions for user	Not determined
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

EU Legislation

Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

Chemical Safety Assessment

No chemical safety assessment has been carried out.

OTHER INFORMATION

Issued By	Health & Safety Officer
Revision Date	16/07/2013
Revision	3
Supersedes date	27/06/2013
SDS No.	5
Date	10/5/2013
Risk Phrases In Full	
R65	Harmful: may cause lung damage if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Hazard Statements In Full	
H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects