



Davco Construction Materials Pty Limited

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MATERIAL SAFETY DATA SHEET

1. Identification of Material and Supplier

Product Name	Duraseal Putty		
Other Names			
Recommended Use	Bituminous waterproofing putty for sealing leaks in gutters, iron roofs, fibro cement sheets, tiles and masonry etc.		
Supplier Name	Davco Construction Materials Pty Ltd		
Address	67 Elizabeth St, Wetherill Park, NSW, Australia 2164		
Web Address	www.davco.com.au		
Telephone	61 2 9616 3000	Facsimile	61 2 9725 5551
Technical Support	1800 653 347	Emergency: Spill, First Aid etc	1800 807 001

2. Hazards Identification

Hazard Classification	This product is hazardous according to the criteria of the NOHSC. Listed as a Scheduled Poison 5 in the SUSDP. Exempt classification as a dangerous goods substances vide subsection 3.5.2 ADG Code Volume 2. All components are listed on the AICS. Not a flammable or combustible liquid according to AS 1940 (Exempt on grounds of viscosity)
Risk Phrases	R 36/37/38 Irritating to the eyes, respiratory system and the skin, R 65, Harmful: may cause lung damage if swallowed R 66 Repeated exposure may cause skin dryness or cracking , R 67. Vapours may cause drowsiness and dizziness.
Safety Phrases	S 38 In case of insufficient ventilation, wear suitable respiratory protection, S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection

3. Composition/Information on Ingredients

Chemical Identity	Proportion	CAS No
Bitumen	> 60 %	8052-42-4
Kerosene	10 - 30 %	8008-20-6
Mineral Turpentine	< 10 %	64742-95-6
Calcium Carbonate	< 10 %	1317-65-2
Ingredients determined to be non-hazardous or below cut-off values	to 100 %	n.a.

4. First Aid Measures

4.1 Symptoms of Exposure by Route

SWALLOWED

Minor amounts ingested incidental to normal handling will have little or no effect. Larger amounts wilfully ingested may cause nausea, vomiting and abdominal pains. May cause chemical pneumonia if aspirated, while vomiting, into the bronchial system.

EYE

Vapours may cause slight eye irritation. Liquid contact with the eye may cause severe, transient, eye irritation.

SKIN

May cause mild to moderate skin irritation. Prolonged or repeated skin exposures may cause the skin to become dry and cracked leading to dermatitis. Bitumen may cause photosensitivity, when next exposed to sunlight, unless promptly removed from the skin with plenty of soap suds.

INHALED

Inhalation of vapours or mists may cause irritation to the upper respiratory tract together with headaches and nausea.

4.2 First Aid Instructions

SWALLOWED

Do not induce vomiting. Rinse mouth clear with water and give two glasses to drink. If patient involuntarily vomits encourage to lean forward to avoid aspirating. If symptoms persist seek prompt medical help.

EYE

Immediately: Hold eye open and flush with clean water for at least 15 minutes. While flushing, gently pull upper and lower eyelids away from eyes and ensure carefully flushed. If symptoms persist seek prompt medical attention.

SKIN

Remove contaminated clothing and footwear (while under safety shower if appropriate). Flush affected area with water for 3-5 minutes followed by washing gently with soap and water for a further 5 minutes. Rinse well and pat dry. If symptoms persist seek prompt medical assistance.

INHALED

Remove patient (while wearing SCBA if concentrations are high) to fresh air. Allow to rest. Rinse mouth and nose with water. Provide artificial respiration if breathing stops. Seek prompt medical attention unless recovery is virtually immediate.

FIRST AID FACILITIES

Provide normal industrial first aid facilities including eye-wash stations and safety showers as appropriate.

Notes to Physician (for symptoms of over-exposure to this product see above)

Possible symptoms of Chronic Health Effects

Prolonged or repeated skin exposure the bitumen content may lead to photosensitisation and possible melanomas. Washing the skin after any exposure greatly reduces the probability of this occurring. Prolonged or repeated skin exposure may lead to dermatitis. Prolonged or repeated inhalation of high vapour concentrations may have an adverse effect on the central nervous system.

Possible aggravated pre-existing conditions

None reported.

Suggested treatment for acute symptoms, known antidotes

Provide supportive care and treatment based on the patient's reaction to the exposure. Emesis is contraindicated due to the potential for aspiration leading to chemical pneumonia. If found necessary use cuffed endotracheal intubation. For further information contact the :

POISONS INFORMATION CENTRE 13 11 26 in all States (New Zealand Dial 0800 764 766)

5. Fire Fighting Measures

5.1 Flammability and Explosion Hazards

Product is flammable and readily ignited. Cartons may ignite if exposed to fire. Product emits toxic fumes when involved in fire.

5.2 Hazardous Combustion Products

CO_x, NO_x, SO_x, HCL and H2S may be emitted during thermal decomposition.

5.3 Suitable Extinguishing Media

Foam, dry chemicals, water as fog or fine spray in flooding quantities.

Hazchem Code: n.all.

5.4 Precautions for Fire Fighters and Special Equipment

Wear SCBA and full turn out clothing. Avoid bodily contact with substance or run-off.

6. Accidental Release Measures

6.1 Emergency Procedures – Spills and Leaks (See Section 13 for disposal considerations)

Switch off or remove all potential ignition sources. Prevent material entering drains or waterways. Send unnecessary personnel out of area. Wear full protective clothing including rubber boots and respirator. Spread sand, soil or other inert absorbent over the pool. When saturated collect into plastic or metal pails or drums. Repeat absorbent as required, ensuring that all product has been removed. Fit lids to waste containers, label and place in a safe area to await disposal in accordance with local regulations for hazardous wastes.

7. Handling and Storage

7.1 Handling Advice

Wear suitable protective clothing. Avoid inhaling vapours whilst in confined spaces. Avoid contact with oxidisers

7.2 Storage Advice

Exempt provisions of the ADG Code.

Store in a cool, well-ventilated area in accordance with AS 1940 and local regulations for flammable liquids. Keep away from oxidising substances and sources of ignition.

8. Exposure Controls/ Personal Protection

8.1 Exposure Standards

The NOHSC has not established an exposure standard for this product. The standard for some of the ingredients has been set:

<i>Substance</i>	<i>TWA</i>	<i>STEL</i>
Bitumen Fumes	5 mg/m ³	n.all.
Mineral Turpentine	480 mg/m ³	n.all.
Calcium Carbonate	10 mg/m ³	n.all.

8.2 Engineering Control Methods

If used indoors provide comfort level intrinsically safe ventilation supplemented as required by intrinsically safe vapour extraction systems. Used outdoors, natural ventilation should be adequate but measurement of air pollutants should be taken if in doubt. In all cases note flash point of > 35°C

8.3 Personal Protective Equipment

Respiratory Protection

Not usually required where ventilation / vapour extraction is suitable. If exposure standards may be exceeded use respirator to AS 1715 & 1716 fitted with an organic vapour filter. Use SCBA or air-supplied hoods in confined spaces.

Eye Protection

Not normally required. If overhead application is likely, wear safety goggles or full face shield to AS 1337.

Gloves

When applying wear nitrile rubber, Teflon or viton gloves to AS 2161.

Clothing

Wear cotton or Tyvec coveralls fastened at the neck and wrists.

9. Physical and Chemical Properties

Appearance:	Black viscous paste	Odour:	Strong solvent odour
Freezing/ Melting Point:	n.d.	Boiling Point:	> 100 °C (Initial - Bitumen)
Density:	1.00	Vapour Pressure:	0.8 kPa @ 38°C (Mineral Turpentine)
Solubility in water :	Insoluble	Volatiles:	98 %
Flash Point:	> 35°C*	Flammability Limits:	1 – 7.5 %
Auto Ignition Point:	n.d.	AS 1940 Classification:	n.a.
Other Properties	Incompatible with oxidisers. Meets criteria for exemption from classification as Class 3 DG according to subsection 3.5.2 ADG Code Volume 2 and AS 1940 criteria		

10. Stability and Reactivity

In normal circumstances of use the product is stable. Keep away from oxidisers.

11. Toxicological Information

No product relevant data.

12. Ecological Considerations

Is expected to slowly biodegrade without bioaccumulating, bioconcentrating or being strongly adsorbed to sediments or organic suspended matter. May be harmful to aquatic organisms.

13. Disposal Considerations

Disposal must be in accordance with local regulations for hazardous industrial wastes.

14. Transport Information

This product is exempt the provisions of the ADG Code (vide subsection 3.5.2 ADG Code Volume 2)

Suitable EPG: n.all.

15. Regulatory Information

Label in accordance with the "National Code of Practice for the Labelling of Workplace Substance" [NOHSC: 2012 (1994)] with the Risk and Safety Phrases given on page 1 of this MSDS. Labelling under the ADG Code is not required for this (exempt) product. As a Schedule 5 Poison the label must display the precautionary word "Caution" at the top of the label in accordance with the SUSDP.

16. Other Information

Date of Issue: 28/07/2006 New MSDS (Version 1.1) to comply with National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition NOHSC: 2011 (2003).

Data Sources used: in the preparation of this MSDS include: "Chempendium" and "MSDS plus Cheminfo" published in CD format by CCOHS Canada 2005 - 4."TOMES" a CD database published by Micromedex, USA, "Hazardous Properties of Industrial Materials" Van Nostrand Reinhold NY, USA . "List of Designated Hazardous Substances" NOHSC 10005:1999, "National Exposure Standards" NOHSC 1003:1995 . **Abbreviations used:** n.d = not determined, n.a = not applicable, n.all =not allocated, SUSDP = Standard for the Uniform Scheduling of Drugs and Poisons, ADG = Australian Dangerous Goods Code, IATA = International Air Transport Association, (Dangerous Goods Regulations), IMDG = International Maritime Dangerous Goods (Code)

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