



Davco Construction Materials Pty Limited

ABN 28 093 876 558

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MATERIAL SAFETY DATA SHEET

1. Identification of Material and Supplier

Product Name	Bitumen Paint		
Other Names	Flammable Liquid N.O.S. (Contains Mineral Turpentine, Kerosene)		
Recommended Use	Bituminous coating and adhesive for roofing and flooring. Anti-corrosive paint for roofing, interior of gutters and general metal protection. Apply by brush or roller.		
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 ASCC. Classed as a DG Substance: UN 1993 Flammable Liquid N.O.S. (Contains Mineral Turpentine and Kerosene) Class 3 PG III . A Schedule 5 Poison according to the SUSDP. A flammable liquid according to AS 1940. All components are listed on the AICS.
Risk Phrases	R 36/37/38 Irritating to eyes, respiratory system and skin, R 65 Harmful: may cause lung damage if swallowed, R 66 Repeated skin exposures may cause drying and cracking of the skin, 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	30 - 60 %	8052-42-4
Mineral Turpentine	10 - 30 %	64742-95-6
Kerosene	10 - 30 %	8008-20-6
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.

INHALED

Inhalation of vapours or mists may cause irritation to the upper respiratory tract together with headaches and nausea. Over exposure may lead to drowsiness and dizziness,

4.2 First Aid Instructions

SWALLOWED

Do not induce vomiting. Rinse mouth clear with water and give two 250 ml glasses of water 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 photo-sensitisation. Washing the skin after any exposure 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 to empty the stomach 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. Containers may rupture violently if exposed to excessive heat. Product emits toxic fumes when involved in fire. Vapour may travel to an ignition source and flash back to point of origin.

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:3 [Y]

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. Take suitable fire precautions, Keep away from strong oxidisers.

7.2 Storage Advice

Transport as UN 1993 Class 3 Flammable Liquid N.O.S. (contains Mineral Turpentine and Kerosene) PG III in accordance with the ADG Code & Regulations, the IATA DG Regulations or the IMDG Code as may be appropriate to the mode of transport. Store in a cool, well-ventilated area in accordance with AS 1940 and local regulations for flammable liquids. Keep away from oxidising

8. Exposure Controls/ Personal Protection

8.1 Exposure Standards

ASCC 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.

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 mists or splashes are likely wear safety goggles or full face shield to AS 1337.

Gloves

When mixing and 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:	Thin, black liquid	Odour:	Bituminous
Freezing/ Melting Point:	n.d.	Boiling Point:	> 100 °C (Initial - Bitumen)
Density:	1.02	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:	DG 3
Other Properties	Incompatible with oxidisers.		

10. Stability and Reactivity

In normal circumstances of use and handling the product is stable.

11. Toxicological Information

LD50 > 2000 mg/kg

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 waste disposal.

14. Transport Information

Transport as UN 1993, Flammable Liquid N.O.S. (Contains Mineral Turpentine and Kerosene), Class 3, PG III in accordance with the ADG Code, the IATA DG Regulations and the IMDG Code as appropriate for mode of transport.

15. Regulatory Information

Labelling: Containers must display Class 3 diamond, UN 1993 and the phrase "Flammable Liquid N.O.S. (Contains Mineral Turpentine and Kerosene)" adjacent to the UN number. Labelling under the "National Code of Practice for the Labelling of Workplace Substance" [ASCC: 2012 (1994)] and the SUSDP is not required for this product.

16. Other Information

Date of Issue: 15/01/2007 New MSDS (Version 1.0) 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 Rheinhold 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), ASCC=Australian Safety and Compensation Council. IARC=International Agency(for) Research (of) Cancer.

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