



**Davco Construction Materials Pty Limited**  
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## MATERIAL SAFETY DATA SHEET

### 1. Identification of Material and Supplier

<b>Product Name</b>	<b>Silvershield</b>		
<b>Other Names</b>	Paint Related Material; Liquid 21		
<b>Recommended Use</b>	Coating for roofs and similar applications. Apply by brush or roller.		
<b>Supplier Name</b>	Davco Construction Materials Pty Ltd		
<b>Address</b>	67 Elizabeth St, Wetherill Park, NSW, Australia 2164		
<b>Web Address</b>	www.davco.com.au		
<b>Telephone</b>	61 2 9616 3000	<b>Facsimile</b>	61 2 9725 5551
<b>Technical Support</b>	1800 653 347	<b>Emergency: Spill, First Aid etc</b>	1800 807 001

### 2. Hazards Identification

<b>Hazard Classification</b>	This product is hazardous according to the criteria of the ASCC, is a DG Substance UN 1263 Class 3 Paint Related Material PG III and is a Schedule 5 Poison according to the SUSDP. All ingredients are listed on the AICS
<b>Risk Phrases</b>	R 36/37/38 Irritating to eyes, respiratory system and skin. R 66 Repeated exposures may cause skin dryness and cracking.
<b>Safety Phrases</b>	S 24/25 Avoid contact with skin and eyes, S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 28 After contact with skin wash immediately with plenty of soap-suds. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

### 3. Composition/Information on Ingredients

Chemical Identity	Proportion	CAS No
Aluminium paste	30 - 60 %	7429-90-5
Mineral Turpentine	30 - 60 %	64742-95-6
Oxidised Asphalt	30 - 60 %	64742-93-4
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, temporary, 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.

### 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 may lead to dermatitis.

#### Possible aggravated pre-existing conditions

Open wounds should be protected before using this product.

#### Suggested treatment for acute symptoms, known antidotes

Provide supportive care and treatment based on the patient's reaction to the exposure. 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 with a flash point of 37°C. Vapours may travel to an ignition source and flash back to the point of origin. Vapours may "pool" in low-lying areas. Containers subjected to excessive heat may rupture violently. Toxic and irritating gases are

### 5.2 Hazardous Combustion Products

COX and unburnt complex hydrocarbons including asphalt fume.

### 5.3 Suitable Extinguishing Media

Foam, dry agents, water delivered as fog in flooding amounts.

**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 pails or drums. Fit lids, seal, label and place containers in a safe area to await disposal. Repeat absorbent as needed to remove all spilled product. Ensure area is thoroughly ventilated before continuing normal work.

## 7. Handling and Storage

### 7.1 Handling Advice

Wear suitable protective clothing. Keep away from oxidising substances.

### 7.2 Storage Advice

Store in accordance with AS 1940-93 and local regulations for flammable liquids. Keep away from oxidising substances (Class 5 DG).

## 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>
Mineral Turpentine	5 mg/m <sup>3</sup>	n.all.
Bitumen fumes	480 mg/m <sup>3</sup>	n.all.

### 8.2 Engineering Control Methods

If used outdoors natural ventilation should be adequate. If used indoors provide ventilation/fume extraction systems capable of keeping the workplace below the exposure standards set. Note flammable nature of product and ensure suitable fire precautions are in place and that equipment is intrinsically safe.

### 8.3 Personal Protective Equipment Respiratory Protection

Not usually required. If exposure standards may be exceeded use respirator to AS 1715 & 1716 fitted with an organic vapour filter. Use SCBA in confined spaces.

#### Eye Protection

Use safety glasses with side shields or goggles to AS 1337 (Unless wearing a full-face respirator).

#### Gloves

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

#### Clothing

Wear Tyvec or cotton coveralls fastened at the neck and wrists. Supplement with PVC apron if needed.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Silver-grey, moderately viscous liquid	<b>Odour:</b>	Bituminous
<b>Freezing/ Melting Point:</b>	n.d.	<b>Boiling Point:</b>	> 150°C
<b>Density:</b>	1.08	<b>Vapour Pressure:</b>	0.8 kPa @ 38°C (Mineral Turpentine)
<b>Solubility in water :</b>	Insoluble	<b>Volatiles:</b>	> 60 %
<b>Flash Point:</b>	37°C	<b>Flammability Limits:</b>	0.8 to 5.0 % (mineral turpentine)
<b>Auto Ignition Point:</b>	250°C (Mineral Turpentine)	<b>AS 1940 Classification:</b>	DG Class 3 Flammable Liquid
<b>Other Properties</b>	Incompatible with oxidising substances		

## 10. Stability and Reactivity

## 11. Toxicological Information

Mineral Turpentine LD 50 Oral Rat 5760 mg/kg. Bitumen fumes contain polynuclear aromatic hydrocarbons (PNAs). Prolonged or repeated skin contact with PNAs has been shown to cause skin cancers (associated with photo sensitisation following poor hygiene practices). Unconfirmed (by classification by IARC) reports associate inhaling PNAs with lung cancers.

## 12. Ecological Considerations

Toxic to aquatic organisms. Slow to biodegrade. Aluminium paste does not readily biodegrade.

## 13. Disposal Considerations

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

## 14. Transport Information

Transport as UN 1263, Paint Related Material, 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

Label in accordance with the ADG Code with a Class 3 Label, UN 1263 and the Shipping Name Paint Related Material. 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:** 11/10/2006 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 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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