

## MATERIAL SAFETY DATA SHEET INFORMATION

For further information: Please refer to the Material Safety Data Sheet following

Issue: September 07

**PRODUCT:** Graffitishield 2PAC

**Other Names:** Resin Solution

**Uses:** Part A' coating system

<b>UN No.:</b>	1866
<b>Dangerous Goods Class:</b>	3
<b>Subsidiary Risk:</b>	None
<b>Packing Group:</b>	III
<b>Hazchem Code:</b>	3[Y]
<b>Poisons Schedule:</b>	6

<b>Hazardous Nature:</b>	This product is classified as hazardous according to Australian Safety and Compensation Council criteria.
<b>Exposure Standards:</b>	TWA: 100 mg/m <sup>3</sup> (19 ppm); STEL: Not specified; Peak Limitation (if any): None; Skin Sensitiser (if any): none. Refer to Section 8 for further information and definitions.

### Physical Characteristics (Typical) Section 9 of the MSDS

Appearance	Clear, viscous liquid
Boiling Point/Range (°C):	154 - > 300
Flash Point (°C):	41
Specific Gravity/Density (g/ml @ 15°C):	1.05
pH:	Not applicable
Chemical Stability:	This product is stable at room temperature and pressure.
Reactivity:	Ignition sources, heat: excessive sunlight or UV exposure

### Product Ingredients Section 3 of the MSDS

Ingredient	CAS Number	Proportion
Xylene	1330-20-7	50 - 80
Acrylate, methacrylate polymer	various	20 - 40

For further ingredients information, please refer to the full MSDS

### Risk Phrases Section 2 of the MSDS

R 45: May cause cancer
R 65: Harmful: May cause lung damage if swallowed
R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed

#### DEFINITIONS

Dangerous Goods	Products that are regulated for transport by Road and Rail under the national guide are Dangerous Goods. Products can be classed as Dangerous Goods if they have a flash point below 60.5°C, a pH below 3 or above 11, are explosives or toxic. These goods will be allocated a UN No., Packing Group, Hazchem Code, and possibly a subsidiary risk.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by nature, rather than by misuse. These include mutagens, teratogens, carcinogens, products that are toxic (but not sufficiently toxic to be classed as Dangerous Goods or carry a subsidiary risk), and products that pose environmental risks.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. For example, in small doses, some products are harmless, but with increased concentration or exposure these products can be extremely harmful. The classification indicates First Aid, etc.

## 1. IDENTIFICATION

**Product Name:** Graffitishield 2PAC  
**Other Names:** Resin Solution  
**Chemical Family:** Acrylate/Methacrylate solution  
**Molecular Formula:** Not Applicable  
**Recommended Use:** Part A' coating system  
**Supplier:** Shieldcoat Pty Ltd  
**ABN:** 79 090 620 410  
**Address:** 2/1075 Beaudesert Road, Archerfield Qld 4108  
**Telephone:** +61 7 3274 6911  
**Fax:** +61 7 3274 6414  
**Emergency Phone:** **0414 479 458**  
**All other inquiries:** +61 7 3274 6911

## 2. HAZARDS IDENTIFICATION

### Hazard Classification

This product is classified as hazardous according to Australian Safety and Compensation Council criteria.

### Hazard Category

Carc. Cat 2; T: Toxic; Xn: Harmful

### Risk Phrases

R 45: May cause cancer

R 65: Harmful: May cause lung damage if swallowed

R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed

### Safety Phrases

S 2: Keep out of the reach of children

S 9: Keep container in a well-ventilated place

S 16: Keep away from sources of ignition

S 23: Do not breath vapour/mist/spray

S 24/25: Avoid contact with skin and eyes

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)

S 53: Avoid exposure - obtain special instructions before use

### Dangerous Goods Classification 3

### Poisons Schedule 6

## 3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Xylene	1330-20-7	50 - 80
Acrylate, methacrylate polymer	various	20 - 40

## 4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

### Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

### Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

**Skin Contact**

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

**Inhalation**

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

**First Aid Facilities**

Provide eye baths and safety showers.

**Medical Attention**

Treat according to symptoms. Avoid gastric lavage - aspiration of product to the lungs may result in chemical pneumonitis.

**5. FIRE FIGHTING MEASURES**

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

**Suitable Extinguishing Media**

Dry chemical or foam

**Hazards from combustion products**

Carbon dioxide and carbon monoxide

**Precautions for fire fighters and special protective equipment**

Full protective clothing and self-contained breathing apparatus

**Hazchem Code**

3[Y]

**6. ACCIDENTAL RELEASE MEASURES****Emergency Procedures**

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

**Methods and materials for containment*****Major Land Spill***

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity"

***Major Water Spill***

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.

- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electrical

### **Conditions for Safe Storage**

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

### **Incompatible Materials**

Natural Rubber, Butyl Rubber, EPDM, Polystyrene

## **8. EXPOSURE CONTROLS: PERSONAL PROTECTION**

### **National Exposure Standards**

The time weighted average concentration (TWA) for this product is: 100 mg/m<sup>3</sup> (19 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: Not specified, which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sk), where none applies in this case.

### **Biological Limit Values (BLV)**

No data available

### **Engineering Controls: Ventilation**

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

### **Personal Protective Equipment**

**Respiratory Protection:** Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type ‘A’ filter material is considered suitable for this product.

**Eye Protection:** Always use safety glasses or a face shield when handling this product.

**Skin/Body Protection:** Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Property	Unit of measurement	Typical Value
Appearance	None	Clear, viscous liquid
Boiling Point/Range	°C	154 - > 300
Flash Point	°C	41
SG/Density (@ 15°C)	g/ml; kgm <sup>-3</sup>	1.05

Property	Unit of measurement	Typical Value
Vapour Pressure @ 20°C	kPa	No data available
Vapour Density @ 20°C	g/ml; kgm <sup>-3</sup>	No data available
Autoignition Temperature	°C	> 250
Explosive Limits in Air	% vol/vol	1.0 – 7.0
Viscosity @ 20°C	cPs, mPas	> 200
Percent volatiles	% vol/vol	> 70
Acidity/alkalinity as pH	None	Not applicable
Solubility in Water	g/l	Insoluble in water
Other solvents	-	aromatic solvents blends

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

## 10. STABILITY AND REACTIVITY

### Chemical stability

This product is stable at room temperature and pressure.

### Conditions to avoid

Ignition sources, heat: excessive sunlight or UV exposure

### Hazardous decomposition products

Carbon dioxide, carbon monoxide, complex polymers

### Hazardous reactions

Mixing with strong oxidising agents causes violent reactions

### Hazardous polymerisation

Will not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Effects

#### **Ingestion**

If swallowed, may cause lung damage on vomiting. Will cause central nervous system depression. May cause discomfort on swallowing. Vapours will cause drowsiness and dizziness and ingestion may result in headaches and nausea.

#### **Eye Contact**

Harmful by inhalation. Vapours will cause dizziness and drowsiness. There is the possibility of organ damage over prolonged use or exposure. Central Nervous System depression includes nausea, headaches, dizziness, and possibly loss of consciousness.

#### **Skin Contact**

Eye contact with this product will cause redness and swelling with a burning sensation and blurred vision.

#### **Inhalation**

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.

### Chronic Effects

This IARC has evaluated all products with this CAS Number identification and classified it as a "possible human carcinogen" (Group 2B) based on sufficient evidence for cancer in exposed humans.

**Other Health Effects Information**

Persons with pre-existing liver, kidney, central nervous system or skin complaints should avoid unnecessary exposure to this product. Every effort to protect eyes, respiratory tract and skin exposure should be taken in these circumstances.

**Toxicological Information**

Oral LD<sub>50</sub>: Rat: 8400 mg/kg

Dermal LD<sub>50</sub>: No data available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Aquatic Toxicity:**

Fish Toxicity LC<sub>50</sub>: Toxic: 1 - 10 mg/l

Daphnia Magna EC<sub>50</sub>: No data available

Blue-green algae: No data available

Green algae: Toxic: 1 - 10 mg/l

**Persistence/Biodegradability:**

This product is highly volatile and will rapidly evaporate to the air if released into the water

**Mobility:**

Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

**Special Precautions**

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be incinerated in a regulated facility. In the absence of a designated industrial incinerator, this product should be treated and disposed through chemical waste treatment, or considered for use in solvent recycling.

**14. TRANSPORT INFORMATION**

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1866	UN No.	1866	UN No.	1866
Proper Shipping Name	Resin solution, flammable	Proper Shipping Name	Resin solution, flammable	Proper Shipping Name	Resin solution, flammable
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	III	Packing Group	III	Packing Group	III
Hazchem	3[Y]	Hazchem	3[Y]	Hazchem	3[Y]

**Dangerous Goods Segregation**

This product is classified as Dangerous Goods Class 3 for Transport by Road and Rail.

## 15. REGULATORY INFORMATION

**Country/Region:** Australia

**Inventory:** AICS

**Status:** Listed

**Poisons Schedule:** 6

## 16. OTHER INFORMATION

**Reasons for Issue:** Upgraded MSDS. New information in all sections.

**Abbreviations:**

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

ASCC: Australian Safety and Compensation Council

**References:**

- Supplier Material Safety Data Sheets
- *Sax's Dangerous Properties of Industrial Materials*, Richard J Lewis Snr., pub. Canada (2000)

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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Shieldcoat Pty Ltd.

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