

Material Safety Data Sheet



MSDS: Pavecoat Tinter

Date of Issue: June 2009
Supersedes Issue Date: June 2004

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Pavecoat Tinter

Other Name(s): 847 Tinter

Recommended Use: For tinting of Nutech Pavecoat Products

Supplier: Nutech Paint Pty Ltd
ABN: 94 242 116 396
Street Address: 4 Keppler Circuit
Seaford, Victoria, Australia 3198

Telephone Number: +61 3 9770 3000
Fax Number: +61 3 9775 1680
Website: www.nutech.com.au

Emergency Numbers: +61 3 9770 3000 7.45am-4.30pm Mon-Fri
000 Police, Fire and Ambulance
131 126 For poisons advice contact a Poisons Information Centre
(New Zealand 0800 764 7660) or a Doctor at once.

2. HAZARDS IDENTIFICATION

Hazardous classification: Hazardous according to the criteria set out by ASCC (NOHSC) based on currently available information.



Xn Harmful

Classified as Dangerous Goods according to the criteria of the Australian Dangerous Goods Code for transport by Rail or Road.

Risk Phrases: Flammable material
Harmful by inhalation and when in contact with the skin
Irritating to the skin
Possible risk to an unborn child

Safety Phrases: Keep out of the reach of children
Keep away from sources of ignition – No Smoking
Avoid contact with eyes
Do not empty into drains
In case of insufficient ventilation, wear suitable respiratory equipment

Poisons Schedule: S5

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS#	Proportion %	Risk Phrase(s)
Pigment		> 60	
Xylene	1330-20-7	10 – 30	R10 R20/21
Mineral Turpentine	9472-95-6	10 – 30	R65
Acrylic Resin	Proprietary	< 10	
Butyl Benzyl Phthalate	85-68-7	< 10	R61

4. FIRST AID MEASURES

Swallowed	If swallowed do not induce vomiting. Rinse the mouth out with water and give a glass of water. Seek medical attention immediately.
Eye	Immediately open eye and flush with plenty of running water for at least 15 minutes. Seek medical attention.
Skin	Remove contaminated clothing and wash affected area with plenty of soap and water. If irritation, swelling or blistering occurs seek medical attention immediately.
Inhalation	Remove victim to fresh air, remove any contaminated clothing to prevent further exposure. Keep victim warm. If symptoms persist seek medical attention.
Medical Advice	Treat symptomatically. The Poisons Information Centre can be contacted on 131 126 for advice or contact your local doctor or hospital.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Fire fighting Foam, Carbon Dioxide or Dry Chemical Powder.
Hazards from Combustion Products:	Flammable Liquid. When burning the product will emit toxic fumes mostly comprised of Oxides or Carbon (Carbon Monoxide and Carbon Dioxide).
Special Protective precautions and equipment for Fire fighters:	Self contained breathing apparatus should be worn to protect the fire fighter against potential toxic fumes that may be present. Containers should be kept cool with water spray and if safe to do so, containers should be removed from the path of the fire.
Hazchem Code	3[Y]

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6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

If the waterways or sewers become contaminated with product advise the local authorities about the contamination.

Methods and Materials for containment and clean up:

All ignition sources should be shut down or removed and unprotected personnel removed from the area. Protective equipment should be worn with care being taken, as spill area will be slippery.

Do not contaminate the waterways or sewer with spill. Do not flush into drains and sewer. If sewer or waterway becomes contaminated contact the local authority. Dike and contain spill with sand, earth or an absorbent material. Clean up before material dries. Place collected material in an appropriate container and dispose of material in accordance with the local authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Keep out of the reach of children.

Avoid contact with eyes or mouth and avoid repeated prolonged contact with skin.

Conditions for Safe Storage:

Store in a cool dry place out of direct sunlight, away from ignition sources and not stored near oxidising materials.

Containers should be sealed when not in use and should be checked on a regular basis for signs of damage or leaks.

8. PERSONAL PROTECTION / EXPOSURE CONTROL

Protective Equipment:



Personal:

Wear Overalls that cover the legs and arms.

Gloves:

Long Chemical Resistant PVC Gloves.

Eyes:

Chemical goggles resistant to hydrocarbon solvents.

Respiratory:

Brush or Roller application: Type A, Class 1 Organic Vapour to AS1715 (e.g. 3M Easicare 5101/5201/5301, Type 1A).

Spray Application: As above in conjunction with Class P1 particle filter.

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Other: Practice strict hygiene – wash hands before breaks and after finishing.

National Exposure Limits:

Xylene(s)	TWA	80 ppm	350 mg/m ³
	STEL	150 ppm	655 mg/m ³
Ethyl Benzene	TWA	100 ppm	434 mg/m ³
	STEL	125 ppm	543 mg/m ³
Mineral Turps	TWA	41 ppm	200 mg/m ³

Biological Limit Value: Xylene Methylhippuric acids in urine End Shift 1.5g/g ACGIH 2003
Ethyl Benzene Mandelic Acid in urine End Work Week 1.5g/g ACGIH

Engineering Controls: Avoid heating of the product or containers it is contained in. Ensure that adequate ventilation is provided to ensure that exposure is kept to a minimum and below the occupational health hazard recommendations. Avoid entering confined areas where vapour may have been collecting keeping in mind that the vapour is heavier than air and will settle into hollows.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Units	Result
Appearance		Clear or coloured viscous liquid
Colour		Colourless to slight yellow colour
Odour		Distinct Aromatic Hydrocarbon odour
pH		N/A
Vapour Pressure	KPa	4.5
Vapour Density		3.7
Boiling Point/Range	°C	136-191
Freezing Point	°C	-48
Solubility in Solvent		100%
Solubility in Water		0.175 grams per Litre
Specific Gravity	Kg/Lt	1.5 – 2.0
Flash Point	°C	27-39
Upper Explosion Limit	%	1.0
Lower Flammability Limit	%	7.1
Auto Ignition Temperature	°C	432
Volatile Organic Content	%	27
Evaporation Rate		13.5
Viscosity	seconds	22 (B4 cup)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use conditions.

Conditions to Avoid: Avoid repeated contact with person, contact with food and high temperature conditions with sealed containers.

Incompatible Materials: Incompatible with Oxidising Agents

Hazardous Decomposition Products: Oxides of Carbon (Carbon Dioxide and Carbon Monoxide)

Hazardous Reactions: No hazardous reactions are known of this product

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11. TOXICOLOGICAL INFORMATION

If used in accordance with the manufacturers recommendations and this Material Safety Data Sheet no negative health results should occur. If exposure results in symptoms, the following may be observed:

Acute and Chronic Exposure and Routes of Exposure

Acute: High vapour concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness and may have a depressive effect on the central nervous system.

Chronic: Prolonged exposure or repeated contact with the skin can irritate and cause dermatitis.

Routes of exposure

General: If swallowed nausea, vomiting and depression of the central nervous system can occur.

Eyes: May be irritating to the eye.

Respiratory System: Inhalation of the product can produce an irritating effect to the mucous membrane of the respiratory tract. Headache, nausea, loss of balance and drowsiness is common when excess inhalation occurs. Central nervous depression can also occur with excess inhalation, which may lead to unconsciousness.

Skin: If contact with the skin is made a degreasing effect will be witnessed and will be likely to cause irritation of the skin. Repeated contact can lead to conditions such as dermatitis in the contact area. Absorption of some of the product components may occur and produce the relevant toxic effects.

Long Term Effects: No information is available on this product at present other than repeated contact might cause dermatitis.

Toxicological Information:

Xylene

Oral LD₅₀ Rats > 200 mg/Kg, LD50 Rabbits > 2000 mg/Kg

Inhale LC50 Rat 4hr > 20mg/L

Mineral Turpentine

TWA = 480 mg/m³

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	Avoid contaminating the sewer system and waterways.
Acute Toxicity	
Fish	: Toxic: 1 < LC/EC/IC50 <= 10 mg/l
Aquatic Invertebrates	: Toxic: 1 < LC/EC/IC50 <= 10 mg/l
Algae	: Toxic: 1 < LC/EC/IC50 <= 10 mg/l
Mobility	: If product enters soil, it will be highly mobile and may contaminate groundwater. Floats on water.
Persistence/degradability	: Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.
Bioaccumulation	: Does not bioaccumulate significantly.
Other Adverse Effects	: In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.

13. DISPOSAL INFORMATION

Disposal Methods:	Any disposal of material should be done in accordance with the local authorities.
Spill:	Remove all ignition sources. Isolate area. Recover free liquid. Absorb in dry inert material and place in a sealable container and label accordingly. Avoid breathing vapours. Adequate ventilation or the use of breathing apparatus may be needed. Local authorities will need to be advised if spill is of a large enough volume.

14. TRANSPORT INFORMATION

UN Number:	UN1866	A red diamond-shaped hazard label with a black flame icon in the center. Below the flame, the text reads 'FLAMMABLE LIQUID' and '3'.
UN Proper Shipping Name:	Resin Solutions	
Class and Subsidiary Risk(s):	3	
Packing Group:	III	
Special Precautions for User:	Avoid transporting with oxidising materials in close proximity.	
Hazchem Code:	3[Y]	

Rail, Road, Marine and Air have classified this product as a DANGEROUS GOOD according to the criteria set out by the Australian Dangerous Goods Code for Transport.

Class 3 products should not be transported with the following classes:

- Class 1 Explosives
- Class 2.1 Flammable Gases
- Class 2.3 Poisonous Gases

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- Class 4.2 Spontaneously Combustible Substances
- Class 5.1 Oxidising Agents
- Class 5.2 Organic Peroxides
- Class 7 Radioactive Substances

15. REGULATORY INFORMATION

Hazard Status: This product is hazardous according to criteria set out by the ASCC



Xn Harmful

Poisons Schedule:

S5

Risk Phrase(s):

R10 Flammable
R20/21 Harmful by Inhalation and contact with Skin
R38 Irritating to the skin
R61 May cause harm to unborn child
R65 Harmful: May cause damage to lung if swallowed

Safety Phrase(s):

S2 Keep out of the reach of children
S16 Keep away from sources of ignition – No Smoking
S25 Avoid contact with eyes
S29 Do not empty into drains
S38 In case of insufficient ventilation, wear suitable respiratory equipment

AICS:

All materials contained in this product appear in the AICS (Australian Inventory of Chemical Substances) database.

16. OTHER INFORMATION

Nutech Paint Pty Ltd has prepared this Material Safety Data Sheet



NUTECH PAINT PTY LTD

4 Keppler Circuit Seaford Victoria Australia 3198
Tel: +61 3 9770 3000 Fax: +61 3 9775 1680
Website: www.nutech.com.au Email: sales@nutech.com.au

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NUTECH PAINT THOMASTOWN 216 Settlement Road Thomastown Victoria Australia 3074 Tel: +61 3 9465 5111 Fax: +61 3 9465 5222
NUTECH PAINT SYDNEY 18 South Street Rydalmere NSW Australia 2116 Tel: +61 2 9638 7089 Fax: +61 2 9638 7911
NUTECH PAINT BRISBANE Unit 2 14-16 Loganlea Road Waterford QLD Australia 4133 Tel: +61 7 3805 7455 Fax: +61 7 3805 2677
NUTECH PAINT WESTERN AUSTRALIA 1/43 Felspar Street Welshpool WA Australia 6106 Tel: +61 8 9458 2111 Fax: +61 8 9451 6004
NUTECH PAINT UK Tel: +44 (0)141 945 2005