

Material Safety Data Sheet

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Infosafe No. LPWED Issue Date : July 2007 ISSUED by PERMANEN

Product Name : **POR-15 ENGINE ENAMEL**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name POR-15 ENGINE ENAMEL
Company Name PERMANENT PAINTED COATINGS PTY LTD
Address Unit 1/4 Prosperity Parade, Warriewood
NSW 2102 Australia
Emergency Tel. 0400 119 210
Telephone/Fax Number Tel: (02) 9999 0122
Fax: (02) 9999 0394
Recommended Use Enamel paint.

2. HAZARDS IDENTIFICATION

Hazard Classification NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Mineral Spirit	8052-41-3	10-30 %
	Naphtha (petroleum), heavy alkylate	64741-65-7	10-30 %
	Titanium Dioxide	13463-67-7	0-10 %
	Ingredients determined not to be hazardous		Balance to 100%

4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion If swallowed, do NOT induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

Eye If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.

First Aid Facilities Eye wash and normal washroom facilities.

Advice to Doctor Treat symptomatically.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use carbon dioxide, dry chemical or foam.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

Specific Hazards Combustible liquid. At elevated temperatures, vapours can form an ignitable mixture with air.
Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.

Precautions in connection with Fire Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use

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clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use in a well ventilated area. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with this product, repeated or prolonged skin exposure without protection should be prevented in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage Classified as a Class C1 (COMBUSTIBLE LIQUID) for the purposes of storage and handling. Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Mineral Spirit			790		
	Titanium Dioxide			10		
Biological Limit Values	No biological limit allocated.					
Other Exposure Information	As published by the National Occupational Health and Safety Commission (NOHSC): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.					
Engineering Controls	Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. Refer to AS1940 - The storage and handling of flammable and combustible liquids and AS2430 - Explosive gas atmospheres for further information concerning ventilation requirements.					
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.					
Eye Protection	Safety glasses with side shields or goggles as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.					
Hand Protection	Wear gloves of impervious material such as neoprene gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.					
Body Protection	Suitable protective clothing should be worn e.g. cotton overalls buttoned at					

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neck and wrist. When large quantities are handled the use of chemical resistant apron and safety boots is recommended. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odour	Not available
Melting Point	Not available
Boiling Point	139-169°C
Solubility in Water	Not available
Specific Gravity	Not available
pH Value	Not applicable
Vapour Pressure	Not available
Vapour Density (Air=1)	Heavier than air.
Evaporation Rate	Slower than ether
Volatile Component	43% by volume
Density	970.59 kg/m ³
Flash Point	62.8°C
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition.
Incompatible Materials	Strong oxidising agents
Hazardous Decomposition Products	Thermal decomposition and combustion produce noxious fumes
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Inhalation	May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, nausea and vomiting.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system.
Skin	May cause irritating in contact with skin. Symptoms may include redness and itchiness. Repeated or prolonged skin contact may lead to dermatitis.
Eye	May cause irritation to eyes. Symptoms may include redness, tearing, stinging and blurred vision.
Chronic Effects	Prolonged or repeated skin contact may cause defatting leading to dermatitis.
Carcinogenicity	Titanium dioxide is classified as an IARC Category 2B carcinogen - possibly carcinogenic to humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available for this specific product.
Persistence / Degradability	No data available for this specific product.

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Mobility No data available for this specific product.

Environ. Protection Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to federal, EPA and state regulations.

14. TRANSPORT INFORMATION

Transport Information Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Storage and Transport Not classified as dangerous.

15. REGULATORY INFORMATION

Poisons Schedule S5

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Created: July 2007

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