# Material Safety Data Sheet



| Infosafe No. | LPWSR | Issue Date : September 2007 | ISSUED by PERMANEN |
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Product Name : **GLISTEN PC TWO-COMPONENT CLEARCOAT**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| **Product Name** | GLISTEN PC TWO-COMPONENT CLEARCOAT |
| **Company Name** | PERMANENT PAINTED COATINGS PTY LTD |
| **Address** | Unit 1/4 Prosperity Parade, Warriewood<br>NSW 2102 Australia |
| **Emergency Tel.** | 0400 119 210 |
| **Telephone/Fax Number** | Tel: (02) 9999 0122<br>Fax: (02) 9999 0394 |
| **Recommended Use** | Clear coat. |

## 2. HAZARDS IDENTIFICATION

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| **Hazard Classification** | HAZARDOUS SUBSTANCE.<br>DANGEROUS GOODS.<br>Hazard classification according to the criteria of NOHSC.<br>Dangerous goods classification according to the Australia Dangerous Goods Code. |
| **Risk Phrase(s)** | R10 Flammable.<br>R21 Harmful in contact with skin.<br>R23 Toxic by inhalation.<br>R36/37/38 Irritating to eyes, respiratory system and skin.<br>R42/43 May cause sensitisation by inhalation and skin contact |
| **Safety Phrase(s)** | S16 Keep away from sources of ignition - No smoking.<br>S23 Do not breathe gas/fumes/vapour/spray<br>S24/25 Avoid contact with skin and eyes.<br>S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.<br>S38 If insufficient ventilation, wear suitable respiratory equipment.<br>S45 In case of accident or if you feel unwell seek medical advice immediately |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | Name | CAS | Proportion |
|---|---|---|---|
| | Hexamethylene diisocyanate based polymer | 28182-81-2 | 30-60 % |
| | Xylene | 1330-20-7 | 10-30 % |
| | Hexamethylene diisocyanate | 822-06-0 | 10-30 % |
| | Aromatic solvent | 68333-23-3 | 10-30 % |
| | Ingredients determined not to be hazardous | - | Balance |

## 4. FIRST AID MEASURES

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| **Inhalation** | If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek IMMEDIATE medical attention. |
| **Ingestion** | Do NOT induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention. |
| **Skin** | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor. |
| **Eye** | If in eye(s) hold eyelid(s) apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. |
| **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). |

## 5. FIRE FIGHTING MEASURES

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| **Suitable Extinguishing Media** | Dry chemical (e.g. monoammonium phosphate, potassium sulfate, and potassium chloride), carbon dioxide, high expansion (proteinic) chemical foam, sand. |

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| **Hazards from Combustion Products** | By fire, carbon dioxide, CO, oxides of nitrogen, traces of HCN, and elements unknown. |
| **Specific Methods** | Water spray may be used to keep fire exposed containers cool. |
| **Specific Hazards** | This product is flammable. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.<br>Keep work areas free of hot metal surfaces and other sources of ignition. |
| **Hazchem Code** | 3[Y] |
| **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

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| **Emergency Procedures** | Wear appropriate personal protective equipment and clothing to avoid exposure. Avoid breathing in of vapours/mists. 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 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 this material enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority. |

## 7. HANDLING AND STORAGE

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| **Precautions for Safe Handling** | Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Do not smoke. Wear appropriate protection. 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** | Store in a cool, dry, well-ventilated area away from 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. Always keep in containers made of the same material as the supply container. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. 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. Reference should also be made to all State and Federal regulations. |
| **Storage Temperatures** | 0 - 50°C. At maximum storage temperatures noted, material may slowly polymerize without hazard. Ideal storage temperature range is 10 - 27°C |
| **Other Information** | Average shelf life: 12 months @ 25°C |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards**

| Name | STEL | | TWA | | |
|---|---|---|---|---|---|
| | mg/m3 | ppm | mg/m3 | ppm | Footnote |
| Hexamethylene diisocyanate based polymer | 0.07 | - | 0.02 | - | |
| Xylene | 655 | 150 | 350 | 80 | |

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| **Biological Limit Values** | No biological limit allocated. |
| **Other Exposure Information** | No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC). However, exposure standards |

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| | for ingredients are stated above:<br>As published by the National Occupational Health and Safety Commission (NOHSC):<br>TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.<br>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.<br>According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers. |
| **Engineering Controls** | Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements. |
| **Respiratory Protection** | If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Respirator with an organic vapor cartridge or canister approved for use in isocyanate containing environments may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices. |
| **Eye Protection** | Safety glasses with side shields, goggles or full-face shield 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. 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** | Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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| **Appearance** | Liquid |
| **Odour** | Not available |
| **Melting Point** | Not available |
| **Boiling Point** | 140°C |
| **Solubility in Water** | Not available |
| **Specific Gravity** | 1.02 |
| **pH Value** | Not applicable |
| **Vapour Pressure** | 5.9 PSIA @ 163°C |
| **Vapour Density (Air=1)** | 3.70 |
| **Volatile Component** | 26% by volume |
| **Flash Point** | 40°C TCC |
| **Flammability** | FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Electrically link and ground metal containers for transfers of the product to prevent accumulation of static electricity. Keep the container tightly closed. |

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| **Auto-Ignition Temperature** | 246°C |
| **Flammable Limits - Lower** | 1% |
| **Flammable Limits - Upper** | 7% |
| **Molecular Weight** | Varies. |

## 10. STABILITY AND REACTIVITY

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| **Chemical Stability** | Stable under normal conditions. |
| **Conditions to Avoid** | Temperature below 0°C or above 50°C. Avoid direct sunlight, open flames or other sources of ignition. |
| **Incompatible Materials** | Avoid contact with water, alcohols, amines, strong bases, metal compounds or surface active materials. |
| **Hazardous Decomposition Products** | By fire, carbon dioxide, CO, oxides of nitrogen, traces of HCN, and elements unknown. |
| **Hazardous Polymerization** | May occur at elevated temperatures. |

## 11. TOXICOLOGICAL INFORMATION

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| **Toxicology Information** | No toxicology data available for this product. |
| **Inhalation** | Toxic by inhalation. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system. Inhalation may cause sensitisation in some individuals causing asthma and breathing difficulties. Inhalation of high concentrations of isocyanates may cause central nervous system (CNS) depression as evidenced by giddiness, headache, dizziness and nausea. |
| **Ingestion** | Ingestion of this product may irritate the gastric tract causing nausea and vomiting. |
| **Skin** | Harmful in contact with skin. Will cause redness, itching and irritation. This product may cause sensitisation in some individuals. |
| **Eye** | Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness. |
| **Chronic Effects** | Prolonged contact could produce reddening, swelling, or blistering and, in some individuals, skin sensitization resulting in dermatitis. |

## 12. ECOLOGICAL INFORMATION

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| **Ecotoxicity** | No data is available for this material. |
| **Persistence / Degradability** | Not available |
| **Mobility** | Not available |
| **Environ. Protection** | Prevent this material entering waterways, drains and sewers. |

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION

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| **Transport Information** | This material is classified as a Class 3 (Flammable Liquid) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following:<br>- Class 1, Explosive<br>- Class 2.1, Flammable Gas, if both the Class 3 and Class 2.1 dangerous goods are in bulk<br>- Class 2.3, Toxic Gas<br>- Class 4.2, Spontaneously Combustible Substance<br>- Class 5.1, Oxidising Agent<br>- Class 5.2, Organic Peroxide<br>- Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are |

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| | nitromethane<br>- Class 7, Radioactive Substance |
| **U.N. Number** | 1263 |
| **Proper Shipping Name** | PAINT RELATED MATERIAL |
| **DG Class** | 3 |
| **Hazchem Code** | 3[Y] |
| **Packaging Method** | 3.8.3RT1 |
| **Packing Group** | III |
| **EPG Number** | 3C1 |
| **IERG Number** | 14 |

## 15. REGULATORY INFORMATION

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| **Poisons Schedule** | Not Scheduled |
| **Hazard Category** | Toxic,Irritant |

## 16. OTHER INFORMATION

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| **Date of preparation or last revision of MSDS** | MSDS Created: August 2007 |

...End Of MSDS...