

SECTION 1: IDENTIFICATION

| | | |
|----------------------------|----------------------|---|
| Product Name | Liquid Release Agent | Supplier information |
| Chemical Family | No Data Available | New Zealand Decorative Concrete Ltd T/A Permacolour |
| Chemical Formula | Powder | 42A Egmont Road, Waiwhakaiho, New Plymouth |
| Chemical Name | No Data Available | 0508 444 555 or 06 755 3320 |
| Product Description | No Data Available | www.permacolour.co.nz |

SECTION 2: HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

HSNO Classifications: 3.1C, 6.1E, 6.3B, 6.4A, 6.8B, 6.9B, 9.1B

Signal word: WARNING

Hazard Statements :

| | |
|--|---|
| H226 Flammable liquid and vapour | H306 May be harmful if swallowed and enters airways |
| H316 Causes mild skin irritation | H355 Suspected of damaging fertility or the unborn H363 May cause damage to organs through prolonged or repeated exposure |
| H320 Causes eye irritation | |
| H441 Toxic to aquatic life with long lasting effects | |

Precaution Statements :

| | |
|---|---|
| P201 Obtain special instructions before use | P202 Do not handle until all safety precautions have been read and understood |
| P233 Keep container tightly closed | |
| P240 Ground container and receiving equipment | P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. |
| P242 Use non-sparking tools | |
| P241 Use explosion-proof equipment | P243 Take precautionary measures against static discharge |
| P260 Do not breath mist or vapours | P264 Wash hands thoroughly after handling |
| P280 Wear eye protection | P281 Use personal protective equipment as required |
| P273 Avoid release to the environment | |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Ingredient | CAS No. | Proportion (%v/v) |
|---|------------|-------------------|
| Aliphatic hydrocarbon, low aromatic content | 64742-82-1 | 60 - 65 |
| Aromatic hydrocarbon | 64742-95-6 | 35 - 40 |
| May contain: 1,2,4-Trimethylbenzene | 95-63-6 | < 20 |
| Mesitylene | 108-67-8 | < 7 |
| Propylbenzene and Isopropylbenzene (Cumene) | 98-82-8 | < 3 |
| Xylene, mixed isomers | 1330-207 | < 1 |

SECTION 4: FIRST AID MEASURES

For advice, contact National Poison Centre (Phone New Zealand: 0800 764 766) or a doctor.

Swallowed

If swallowed, do not induce vomiting. Keep at rest. Seek immediate medical attention. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Get medical attention if irritation persists.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Keep warm and at rest. Seek medical attention if rapid recovery does not occur. Begin artificial respiration if breathing has stopped.

First Aid facilities

Provide eye baths and safety showers close to areas where splashing may occur.

Medical Attention

Treat according to symptoms. Gastric lavage may be indicated if ingested but protect airway as risk of aspiration into lungs with potential to cause chemical pneumonitis. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.

SECTION 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 Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media :

Foam or water fog. Dry chemical, carbon dioxide, sand and earth suitable for small fires.

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: 3Y

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours 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.
- Prevent liquid 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 minimize the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- 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.
- 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".

SECTION 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 spark).

Conditions for safe storage:

Store in a cool, dry place away from direct sunlight. Do not pressurize, 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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Health Exposure Standards:

The following Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES), 2002 have been set by the Occupational Safety and Health Service, NZ Department of Labour for components in this substance:

| | WES-TWA | WES-STEL |
|----------------------------------|----------------------------------|---------------------------------|
| White spirits (Stoddard solvent) | 100 ppm (525 mg/m ³) | |
| Cumene (skin) | 25 ppm (125 mg/m ³) | 75 ppm (375 mg/m ³) |

Biological limit values: None established

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 ventilation equipment.

Personal Protective Equipment:

Respiratory Protection: Where concentrations in air may 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: It is recommended to wear long sleeves and long trousers or coveralls, enclosed footwear and chemical resistant gloves be worn when handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property | Unit of measurement | Typical value |
|---------------------|---------------------|--------------------------|
| Appearance | - | Clear, colourless liquid |
| Boiling Point/Range | °C | 154 – 192 |
| Flash Point | °C | 41 |
| Density @ 15°C | g/ml | 0.81 – 0.82 |

| | | |
|--------------------------|-------|----------------|
| Vapour Pressure @ 20°C | kPa | Not available |
| Vapour Density @ 20°C | kPa | Not available |
| Autoignition Temperature | °C | > 200 |
| Explosive Limits in Air | % | 0.6 – 7 |
| Viscosity | cSt | Not applicable |
| Volatiles | % | 100 |
| Solubility in Water | % w/w | Insoluble |

The values listed are indicative of this product's physical and chemical properties.

For a full product specification, please consult the Product Data Sheet.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature and pressure.

Conditions to avoid: Sources of heat and ignition, open flames.

Hazardous decomposition products: No decomposition products except on burning. See "Fire Fighting Measures".

Hazardous reactions: Oxidizing agents, mineral acids, halogenated organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting any amount of this product will result in headaches, nausea, dizziness, and tracheal burning.

Eye Contact

This product is irritating to eyes, but will not permanently damage the eye tissue.

Skin Contact

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking. Prolonged or repeated exposure may lead to dermatitis.

Inhalation

This product may be irritating resulting in coughing, wheezing, choking or breathing difficulties. Exposure to large concentrations over an extended period of time will result in central nervous system (CNS) depression with symptoms of headache, nausea and lack of co-ordination.

Chronic Effects

This product may contain >0.1 to 1% of xylene (mixed isomers) as an impurity. ERMA have identified this substance with a hazardous classification of suspected of damaging fertility or the unborn child.

Other Health Effects Information: None

Toxicological Information: None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity: Product contains components identified as being toxic in the aquatic environment with long-lasting effects.

Persistence/degradability: Expected to be biodegradable and to not be bioaccumulative. Oxidized rapidly by photochemical reactions in air.

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

Environmental Exposure Standards:

EEL (WATER): Not set

EEL (SOIL) Not set

EEL (SEDIMENTS) Not set

SECTION 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 fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

Special Precautions for Landfill or Incineration:

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 burned directly in appropriate equipment.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport

UN No. 1300

Proper Shipping Name:
solvent naphtha (petroleum)

DG Class 3

Sub. Risk None

Pack Group III

Hazchem 3Y

Marine Transport

UN No. 1300

Proper Shipping Name:
solvent naphtha (petroleum)

DG Class 3

Sub. Risk None

Pack Group III

Hazchem 3Y

Air Transport

UN No. 1300

Proper Shipping Name:
solvent naphtha (petroleum)

DG Class 3

Sub. Risk None

Pack Group III

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, packing group III.

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

SECTION 15: REGULATORY INFORMATION

Country/ Region: Australia, New Zealand

Inventory: AICS, NZCIL

Status: Listed

EPA New Zealand Approval Code:

HSR002650 Solvent (Flammable) Group Standard, 2006

HSNO Default Controls: Codes: F1,F2,F3, F5, F6, F11, F12, F14, F16, F17, T1, T2,T4, T7, T8, P1, P3, P5, P13, PG3, D2, D4, D6, D7, D8, EM1, EM4, EM6, EM8, EM9, EM10, EM11, EM12, EM13, I1, I5, I8, I9, I11, I13, I16 I19, I21, I25, I28, I29, I30, GN35A.

Refer www.epa.govt.nz for information for application of these Controls and any variations.

SECTION 16: OTHER INFORMATION

Abbreviations:

AICS: Australian Inventory of Chemical Substances

NZCI: New Zealand Chemical Inventory

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Council

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 Australasian Solvents and Chemicals Company (NZ) Pty. Ltd.