

MATERIAL SAFETY DATA SHEET

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| Document | VX MSDS 020 |
| Issued | 13/10/99 |
| Revision: | Date: 15/11/99 |

COMPANY DETAILS:

Company: Vinidex Pty Limited
 ABN 42 000 664 942
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IDENTIFICATION

Product Name: Polyethylene (PE) pipe and conduit
 Tradenames: Aquapol, Cablecon, Sewertech, Minetech, Slurrytech,
 Other Names: High Density Polyethylene (HDPE), Medium Density Polyethylene (MDPE) and Low Density Polyethylene (LDPE), abb. polythene
 Manufacturer's Product Code: Various
 Dangerous Goods Class and Subsidiary Risk: Not classified as hazardous according to criteria of Worksafe Australia
 Hazchem Code: Non allocated
 Poisons Schedule Number: Not listed
 Use: Water supply, irrigation, sewerage, drainage, gas, industrial process piping, telecommunications and electrical conduit

Physical Description/Properties

Appearance: Plastic pipes or tubes, 12 to 1200 mm diameter, in coils up to 300 m or straight lengths up to 12 m. Colour: black, blue, yellow or white, or black with coloured stripes
 Boiling Point/Melting Point: Softens 107-130 °C
 Vapour Pressure: Not applicable
 Relative density: 0.93 - 0.98
 Flashpoint: Non allocated
 Flammability Limits: Non allocated
 Solubility in Water: Negligible

Ingredients:

| Chemical Name: | CAS Number: | Proportion: |
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| Polyethylene | 9002-88-4 | 96 - 99.5% |
| Pigments | | |
| Black: Carbon Black | 1333-86-4 | 0 - 3% |

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| White: Rutile titanium dioxide | 13463-67-7 | 0 - 3% |
| Yellow: Cadmium lithopone yellow | | 0 - 0.6% |
| Yellow: Cadmium sulphide yellow, Titanium dioxide, Iron oxide red | | 0 - 1.5% |
| Blue: Copper phthalocyanine | 147-14-8 | 0 - 0.5% |
| Proprietary additives, anti-oxidants | | 0 - 1% |

HEALTH HAZARD INFORMATION

Health Effects

General

There are no significant health hazards associated with PE pipe products under normal conditions of use or from mechanical working or forming of the product. All additives are encapsulated within the polymer matrix and should present no hazard under conditions of normal use and good occupational work practice. Peripheral effects may arise from combustion. See section PRECAUTIONS FOR USE. No listed carcinogenic, mutagenic or teratogenic effects.

Acute:

- Swallowed:** No known effects/minimal toxicity.
- Eye:** Dust from cutting with abrasive wheel may scratch eye surfaces/cause mechanical irritation to eyes.
- Skin:** Skin contact may result in mechanical injury or abrasion. This is a low risk hazard. Thermal burns may result from exposure to hot material.
- Inhaled:** Inhalation of dust fines may cause irritation of nose and throat.

Chronic:

None known.

First Aid

- Swallowed:** Not applicable to product as supplied. Ingestion of dust requires no specific treatment. Drink water.
- Eye:** Flush with water in order to remove particles.
- Skin:** Wash dust off with soap and water. Molten material will adhere to skin and cause burns. Cool material as quickly as possible with water and see a physician for prompt removal of the adhering material and treatment of the burn. Do not remove material or clothing from skin. Removal may exacerbate the injury.
- Inhaled:** Not applicable to product as supplied. Gaseous combustion products: Remove victim to fresh air.

First Aid Facilities: No special requirements.

Advice to Doctor: Treat symptomatically

PRECAUTIONS FOR USE

Exposure Standards: No exposure standard has been published by the National Occupational Health and Safety commission (Worksafe Australia). A limit of 10 mg/m³ for nuisance dusts is recommended.

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| Engineering Controls: | Stability – stable Incompatibility – Strong oxidising agents. Polyethylene pipe can be permeated by hydrocarbon liquids or vapours, which may taint water or air within pipes used for potable water or air transmission. |
| Personal Protection | No special protection required. Gloves are advisable when handling cut ends of pipes. When working with the product, normal safety glasses are recommended, and dust mask if sawing with abrasive wheel or sanding. |
| Flammability: | Ignitable and will support combustion. Protect from contact with open flame. |

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| SAFE HANDLING INFORMATION |
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| Storage and Transport: | No special requirements. PE pipe products are not considered hazardous for transportation according to Transport of Goods by Road and Rail Acts |
| Handling | Coils of pipe may have substantial elastic energy. When cutting bands exercise caution to ensure that springing of the pipe, particularly at the ends, cannot cause injury. Injury can be sustained by rolling of pipes. Unpack crates and bundles on a flat surface, and ensure free stacks are adequately chocked. Do not climb on stacks. |
| Material working | Normal safe practices should be employed when working with the product in order to avoid inhalation of dust created when cutting the material: a well ventilated area and the use of dust masks and eye protection when cutting. When heating for bending or other forming, use hot water or air with appropriate safeguards. Use of an open flame is inadvisable (see below). |
| Spills and Disposal: | Spillage – not applicable. Disposal – Recycle where possible. Refer to appropriate environmental protection agency/authority. Normally suitable for disposal as general waste land fill. |
| Fire/Explosion Hazard: | Build up of airborne dusts may cause a dust explosion. By-products of combustion include Carbon Dioxide (asphyxiant) Carbon Monoxide (toxic), plus low levels of aldehydes, acetic Acid. Pigments as listed may become free and present in combustion products or residues at low levels. |
| Fire Fighting Procedures | Use self-contained breathing apparatus. |
| Extinguishing Media | Use water, water fog or foam to extinguish fires. Carbon Dioxide or Dry Chemical are suitable, but are not preferred, as lack of cooling capacity may result in re-ignition. |

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| CONTACT POINT | The Technical Manager, Technical Services Group Telephone : (02) 9604 2422 |
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This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Vinidex Tubemakers Pty Limited cannot anticipate or control all the conditions under which the product may be used, and it remains the responsibility of each user, prior to usage, to review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.