

Date of Issue: 18/02/2015

**PVC Pipe, Conduit, Moulded Fittings****Section 1: Identification of Product and Supplier****Product Name**

Trade Names: Optim, Stormline, Stratus, Genex, Classic, Stormcloud, FL2, Typhoon, Ovation, Magnum, RP65, RP80, Agriduct.

Other names and variants: PVC pipe, conduit and moulded fittings, unplasticised PVC, unmodified PVC (UPVC, uPVC, PVC-U) modified PVC (MPVC, mPVC, PVC-M).

**Product Use**

Pipes and fittings for water supply, irrigation, sewerage, drainage, industrial process piping  
Telecommunications and electrical conduit

**Supplier**

Marley New Zealand Ltd

32 Mahia Road

Manurewa 2243

New Zealand

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**Further Information Available From:**

Technical Manager, +64 9 279 2799

**Emergency:**

Technical Manager, +64 9 279 2799

**Section 2: Hazards Identification****Statement of Hazardous Nature**

NON-HAZARDOUS PRODUCT NON-DANGEROUS GOODS

According to NOHSC criteria and ADG Code

**Poisons Schedule**

Not listed.

**Hazard Statements**

None required.

**Precautionary Statements**

None required.

**Other Hazards**

Refer to Section 7 Handling and Storage for general precautions for use.

**Section 3: Composition/Information on Ingredients****Composition and Form**

Manufactured rigid solid tubes of various dimensions for plumbing and water distribution as described in Section 1.

**Chemical Composition**

CAS Number	Chemical Name/s	Proportion
9002-86-2	Poly(vinyl chloride) polymer	70 – 80%
471-34-1	calcium carbonate filler	3 – 16%
	Modifiers (chlorinated PE, & Acrylics)	0 - 5%
	Stabiliser & lubricants	1.6 – 6%
13463-67-7	titanium dioxide	1.2 – 4%

**Section 4: First-Aid Measures****Swallowed**

There are no known health effects for the ingestion of PVC. Ingestion is unlikely to occur due to the physical size and dimensions of the products. However, small particles may be generated by sawing or mechanically breaking the products or similar means.

**Eye**

Inapplicable to the solid product except for mechanical injury. Dust/small particles from sawing or other mechanical process may affect eyes if not protected. Hydrochloric acid and other fumes emitted during combustion can cause irritation to the eyes. Flush with copious quantities of water and treat symptomatically.

**Skin**

Inapplicable to the solid product except for mechanical injury. Dust/small particles from sawing or other mechanical process may affect eyes if not protected. There have not been reports of Irritation arising from such dust and small particles. Hydrochloric acid and other fumes emitted during combustion can cause irritation to the skin. Flush with copious quantities of water and treat symptomatically.

**Inhaled**

Inapplicable to the solid product due to the physical size and dimensions of the products. For inhalation of fumes and gaseous by-products (hydrochloric acid, carbon monoxide etc), remove the patient immediately from exposure and seek medical advice.

**Notes to Physician**

Treat symptomatically.

**Section 5: Fire-fighting Measures****Extinguishing Media**

Water, water-fog or foam to extinguish fire. Carbon dioxide or dry chemical are suitable but are considered not as efficient due to lack of cooling capacity.

**Fire Fighting**

Wear fully protective body suit with self-contained breathing apparatus (S.C.B.A.) to prevent contact with fumes and gases produced during combustion.

**Fire/Explosion Hazard**

Combustible, self-extinguishing. Not an explosion risk. If forced to burn, it will emit dense acrid fumes containing hydrochloric acid (highly acidic and severe irritant), carbon dioxide (asphyxiant), carbon monoxide (toxic) and possibly phosgene (toxic). All are potentially lethal in sustained exposure.

**Fire Incompatibility**

Oxidising agents.

**HAZCHEM Code**

Does not meet the criteria for classification.

**Personal Protection**

Wear fully protective body suit with self-contained breathing apparatus (S.C.B.A.) to prevent contact with fumes and gases produced during combustion and appropriate gloves and footwear.

**Section 6: Accidental Release Measures**

**Minor Spills**

Collect products and bundle or secure safely. If necessary, isolate area to prevent damage to /destruction of products by vehicles etc. Broken parts may be sharp and eye protection and gloves are recommended.

**Major Spills**

Isolate area as necessary to prevent further damage. Collect products and bundle or secure safely. Broken product and parts may have sharp edges and eye protection and gloves are recommended.

**Section 7: Handling and Storage**

**Procedure for Handling**

Check security of bundles of pipes before releasing strapping and retaining frames. Injury can be sustained by rolling of pipes. Unpack crates and bundles on a flat surface and ensure that free stacks are adequately chocked. Do not climb on stacks.

Normal safe practices should be employed when working with the material; a well ventilated area and the use of eye and protection, dust masks and gloves are recommended when sawing, grinding (with abrasive wheel) and handling. When heating for bending or other forming, use hot water or air with appropriate safeguards. Use of an open flame is inadvisable.

**Storage**

Store in appropriate areas (outside or in warehouse) in accordance with site safety requirements. Do not store with oxidising agents.

**Section 8: Exposure Controls / Personal Protection**

**Exposure Controls**

No exposure controls are necessary as products are inert and all additives are encapsulated within the polymer matrix and present no hazard under conditions of normal use and good occupational work practice.

**Personal Protection**

**Eye**

Glasses

Glasses are recommended in case of accidental knock when handling pipe and especially when working pipes mechanically, sawing etc.

#### **Hands/Feet**

Safety footwear and gloves.

#### **Other**

#### **Engineering Controls**

Appropriate controls for safe working when handling and mechanically working e.g. sawing.

### **Section 9: Physical and Chemical Properties**

#### **Appearance**

Opaque rigid solid tubes with diameters ranging from 15 mm to 400 mm with lengths up to 12 metres. Colour of pipe varies depending upon application e.g. white, grey, blue, yellow, green, and orange. The pipe can be with or without jointing sockets and with or without ribbed or profiled exterior. Products are also various fitting to match e.g. tees, bends reducers, couplings etc.

Odour:	Nil
pH:	Nil effect, insoluble
Melting point	Softens at >75°C.
Initial boiling point and range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Will burn in contact with flame
Upper/lower flammability	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	1.3 – 1.6
Solubility	insoluble in water
Partition coefficient: octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	starts at 140°C but is time dependent
Viscosity	Not applicable

### **Section 10: Chemical Stability and Reactivity**

Stable under normal conditions of storage and use.

#### **Incompatible materials**

Do not store with oxidising agents.

#### **Hazardous decomposition products**

Product will start to decompose if maintained at temperatures of >140°C.

Decomposition products are hydrochloric acid, carbon dioxide, carbon monoxides and possibly phosgene.

**Section 11: Toxicological Information**

LD<sub>50</sub> Value      Not applicable

The products are inert and insoluble and consist of a fused polymer matrix which also encapsulates all additives.

**Section 12: Ecological Information****Ecotoxicity**

No adverse effects on environment have been reported. The product can be physically removed from waterways by means appropriate to the size of the article. It is recommended that local environmental agencies are notified.

**Section 13: Disposal Considerations**

Recycle where possible.

Refer to state/territory environmental protection agency/ authority. Normally suitable for disposal as general waste land fill.

**Section 14: Transport Information****Land Transport (Road/Rail)**

Not classified as a dangerous goods.

**Marine Transport**

Not classified as a dangerous goods.

**Air Transport**

Not classified as a dangerous goods.

**Section 15: Regulatory Information**

There is no safety, health or environmental regulations specific to these products.

**Section 16: Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department Issuing MSDS:      Technical Services, Auckland

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First Issue