

**MARLEY AUCKLAND**  
32 MAHIA ROAD, PRIVATE BAG 802  
MANUREWA, AUCKLAND

**MARLEY CHRISTCHURCH**  
129 SHANDS ROAD, PO BOX 16233  
HORNBY, CHRISTCHURCH

T 0800 MARLEY (627 539)  
E [info@marley.co.nz](mailto:info@marley.co.nz)  
W [www.marley.co.nz](http://www.marley.co.nz)

# Marley PVC pipe, conduit, moulded fittings

Safety Data Sheet  
Issue Date: 27<sup>th</sup> Jan 2023  
Version: 1.2

## 1. Product and company identification

### Trade Names

Optim<sup>®</sup>, Stormline<sup>®</sup>, Stratus Design Series, Genex, Classic<sup>™</sup>, Stormcloud<sup>®</sup>, FL2<sup>®</sup>, Typhoon<sup>®</sup>, Magnum<sup>®</sup>, RP65<sup>®</sup>, RP80<sup>®</sup>, Agriduct<sup>®</sup>, Arma<sup>®</sup>, Calibre<sup>®</sup>

### 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  
Telephone Number: +64 9 279 2799  
Facsimile Number: +64 9 279 2798

## 2. Hazard(s) identification

NOT CLASSIFIED AS HAZARDOUS  
NOT CLASSIFIED AS DANGEROUS GOODS

### Hazard Statements

None required.

### Precautionary Statements

None required.

### Other Hazards

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

## 3. Composition and information on ingredients

### Product

Manufactured rigid solid tubes of various dimensions for plumbing, water/energy distribution. Injection-moulded rigid fittings.

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## Chemical composition

Ingredients	CAS number	Proportion wt%
Polyvinyl chloride	9002-86-2	> 70%
Inorganic fillers	1317-65-3	< 20%
Waxes, pigments, processing aids, impact modifiers, stabilisers	Mixture	< 10%

## 4. First-aid measures

### If 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.

### In case of eye contact

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.

### In case of skin contact

Inapplicable to the solid product except for mechanical injury. Dust/small particles from sawing or other mechanical process may affect skin 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.

### If 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.

## 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.

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## 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.

## 6. Spillage, accidental release measures

### Minor Spills

Collect products and bundle or secure safely. If necessary, isolate area to prevent damage to (or destruction of) products by vehicles etc. Broken parts may be sharp and eye protection and gloves are recommended. If no longer suitable for further use, the collected product can be disposed of as indicated in Section 13.

### 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. If no longer suitable for further use, the collected product can be disposed of as indicated in Section 13.

## 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.

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## Storage

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

## 8. Exposure controls and 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 - Eyes

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

### Personal Protection - Hands/Feet

Safety footwear and gloves.

### Engineering Controls

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

## 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 fittings to match e.g. tees, bends reducers, couplings etc.

Odour:	Nil
pH:	Nil effect, insoluble
Melting point:	Softens above 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

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Solubility:	Insoluble in water
Partition coefficient:	Not applicable octanol/water
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Starts at 140°C but is time & temperature dependent
Viscosity:	Not applicable

## 10. Stability and reactivity

### Stability

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.

## 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.

## 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.

## 13. Disposal considerations

Where possible, recycling is preferred to landfill or incineration.

Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency/authority for specific rules).

## 14. Transport information

### Land Transport (Road/Rail)

Not classified as a dangerous goods.

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## Marine Transport

Not classified as a dangerous goods.

## Air Transport

Not classified as a dangerous goods.

## 15. Regulatory information

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

## 16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is intended only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a product warranty or product quality specification. The information relates only to the specific product designated and may not apply when the product is used in combination with any other materials or in any process, unless specified in the text.