

## 1. IDENTIFICATION

**Product name:** Flowtite® Glass Fibre Reinforced Plastic (GRP) Pipes, Fittings and Couplings

**Recommended use:** Pipes, fittings and couplings

**Supplier:** RPC Pipe Systems

**Street address:** 11 Christie Road, Lonsdale, South Australia, 5160

**Telephone:** +61 8 8329 1111

**Emergency phone number:** +61 4 5856 5050

## 2. HAZARD(S) IDENTIFICATION

This material is classified, as supplied, as non-hazardous according to the criteria of the GHS (7th Revised Edition), the Work Health and Safety Legislation (as adopted in most states and territories of Australia) and the Victorian Dangerous Goods (Storage and Handling) Regulations 2022.

*When this product is modified in a way that creates fine dust, for example by the action of cutting, grinding or machining, the resulting dust may be classifiable as hazardous owing to the presence of crystalline silica, some of which may be in the respirable form. Repeated inhalation of respirable crystalline silica may lead to silicosis, an as-yet incurable lung condition that may progress to lung cancer. As a result, any dust created by the modification of this product needs to be treated as being hazardous and would be subject to the GHS hazards indicated in Section 16 of this document.*

**Signal Word:** None

### Hazard Classifications

None

### Hazard Statements

None

### Prevention Precautionary Statements

None

None

### Response Precautionary Statements

None

### Storage Precautionary Statement

None

### Disposal Precautionary Statement

None

**Poison Schedule:** Not Applicable

### DANGEROUS GOODS CLASSIFICATION:

Not Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No.	PROPORTION (% w/w)
Ingredients classified as non-hazardous	Not disclosed	Balance to 100%

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**General:** If a person has sustained a high exposure to the product, do not leave the affected person unattended. Keep the affected person warm, still and covered. Remove contaminated clothing. If the persons recovery appears to be slow, seek medical advice. If the person is unconscious then place them in the recovery position and don't give anything by mouth.

**Inhalation:** Inhalation is not considered a plausible route of exposure to this product unless the product is modified in a way that produces fine dust (for example by sawing or grinding). In the event of significant inhalation of fine dust of the product that may result from modification, remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Keep at rest until fully recovered. Seek medical advice if any symptoms develop.

**Skin Contact:** Skin contact with this product is not considered to be harmful.

**Eye contact:** Eye contact is not considered a plausible route of exposure to this product; however, if dust of the product enters the eyes, take the following action: remove contact lenses if easy to do so; hold eyelids apart and flush the eyes continuously with running water. Continue flushing for at least 15 minutes and seek medical assistance if eye damage is apparent or if eye irritation persists.

**Ingestion:** Ingestion is not considered a plausible route of exposure to this product; however if fragments or dust of the product have been ingested and the affected person is conscious, ask patient to rinse mouth with water. Do NOT induce vomiting. Seek medical advice if adverse symptoms develop or if a fragment of significant sizes may have been ingested.

**PPE for First Aiders:** Wear gloves and safety glasses.

**Notes to physician:** Treat symptomatically.

## 5. FIREFIGHTING MEASURES

**Hazchem Code:** None applicable

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** This product is combustible to some degree but does not readily undergo combustion. Intense combustion may produce oxides of carbon.

**Fire fighting further advice:** In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to take into account what surrounding material may be on fire. Do not allow firefighting water to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

### ENVIRONMENTAL PRECAUTIONS

The product should be prevented from entering waterways and should be retrieved from waterways if safe and practical to do so.

### ACTION IN THE EVENT OF A LOSS OF CONTAINMENT

Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of any dust of the product that may have been generated by damage. Work up wind or increase ventilation. For small particles, sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal.

**Dangerous Goods - Initial Emergency Response Guide No:** Not applicable.

## 7. HANDLING AND STORAGE

**Handling:** Avoid eye contact with fragments or dust of the product; avoid repeated or prolonged skin contact. If the product has been modified in a way that produces fine dust, avoid inhalation.

# Safety Data Sheet



**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### National occupational exposure limits:

Exposure limits from Safe Work Australia:	TWA		STEL		NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Inhalable dust	-	10	-	-	This limit applies to inhalable dust containing no asbestos and < 1% crystalline silica
Quartz (SiO <sub>2</sub> ) - respirable fraction	-	0.05	-	-	Carc. 1A

As published by Safe Work Australia (SWA).

Under "Notices" in the table above, the Safe Work Australia note "Carc. 1A" indicates that the specified atmospheric contaminant (Quartz, respirable dust) is a Category 1A carcinogen. Respirable quartz is known to cause cancer by the inhalation route of exposure. Respirable quartz can only be generated by modification of the product to produce fine dust, for example by cutting, grinding or machining. If fine dust of the product is produced, then the above exposure limit for respirable quartz should be maintained in the workplace.

According to the document Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants (Safe Work Australia, April 2013), the respirable fraction is composed of the fine dust which is able to reach the lower bronchioles and alveolar regions of the lung. As the Equivalent Aerodynamic Diameter of particles reduces from 18 micrometres (µm), the respirability of the particles steadily increases. At an equivalent aerodynamic diameter of just 2 microns, the particles are 97% respirable.

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**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.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measures:** When fine dust of the product is generated (for example by grinding or cutting), ensure that ventilation is adequate to maintain air concentrations below Exposure Standards and use with local exhaust ventilation or while wearing appropriate respiratory protective equipment.

### Personal Protection Equipment:

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

**Eye protection:** Wear eye/face protection.

**Hand protection:** Wear suitable gloves. Gloves which are tested according to the ISO 374 series of standards impart the required level of chemical protection. Check leak-tightness/impermeability prior to use. To safely re-use the gloves, clean them before taking off and air them well. Recommended glove material: Nitrile, with material thickness greater than 1 mm and breakthrough times greater than 60 minutes (permeation level 3).

**Respiratory protection:** The use of Respiratory Protective Equipment (RPE) is recommended when ventilation is poor and when the product is being modified to produce a fine dust. Select a respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Hygiene measures:** When cutting or mechanically abrading this material, wear safety shoes, overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If dust is being generated, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Protective gloves should be worn when cutting material and when site regulations require this; due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating or drinking. Wash dust-contaminated clothing and other protective equipment before storing and re-using.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Solid
<b>Appearance/Colour:</b>	Various colours
<b>Odour:</b>	Odourless
<b>Solubility:</b>	Insoluble in water
<b>Specific Gravity (Water = 1):</b>	Not available
<b>Relative Vapour Density (air=1):</b>	Not applicable
<b>Vapour Pressure (20°C):</b>	Not available
<b>Flash Point (°C, for 90% ethanol):</b>	Not applicable
<b>Flammability Limits (%):</b>	Non-flammable
<b>Autoignition Temperature (°C):</b>	Not available
<b>Melting Point/Range (°C):</b>	Not available
<b>Boiling Point/Range (°C):</b>	Not available
<b>pH:</b>	Not applicable
<b>Viscosity:</b>	Not available
<b>Total VOC (g/Litre):</b>	Not available

Typical values only are shown.

## 10. STABILITY AND REACTIVITY

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

**Hazardous reactions:** No known hazardous reactions.

## 11. TOXICOLOGICAL INFORMATION

No adverse health are effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects:

**Inhalation:** Not applicable as supplied. If material is cut or mechanically abraded material may be an irritant to mucous membranes or respiratory tract. The inhalation of fine (respirable size) quartz containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer.

**Skin contact:** Contact with skin is not expected to cause irritation. If material is cut or mechanically abraded, contact with skin may result in irritation.

**Ingestion:** Ingestion is not a plausible route of exposure.

**Eye contact:** As supplied, it's not possible for this product to enter the eyes; if dust of the product is produced by sanding, cutting or grinding then dust of the product may cause mechanical irritation of the eyes and eye contact should be avoided.

**Acute toxicity:**

**Inhalation:** This material does not meet the classification criteria for acute toxicity by inhalation.

**Skin contact:** This material does not meet the classification criteria for acute toxicity by the dermal route.

**Ingestion:** This material does not meet the classification criteria for acute toxicity by the oral route

**Corrosion/Irritancy:** This material does not meet the classification criteria for skin corrosion or skin irritancy.

**Sensitisation (inhalation):** This material does not meet the criteria for classification as a respiratory sensitiser.

**Sensitisation (skin):** This material does not meet the criteria for classification as a skin sensitiser.

**Aspiration hazard:** This material does not meet the criteria for classification as an aspiration hazard.

**Specific target organ toxicity (single exposure):** This material does not meet the classification criteria for specific target organ toxicity (single exposure).

**Chronic Toxicity:**

**Mutagenicity:** This material does not meet the classification criteria for germ cell mutagenicity.

**Carcinogenicity:** Crystalline silica (for example quartz), when present as respirable dust, is a Category 1A carcinogen by the inhalation route. Crystalline quartz is a significant component of the product and a certain component, likely to exceed 0.1% by weight in the product, is present in the respirable form. Measures should be taken to maintain airborne respirable crystalline silica below the exposure limits described in Section 8.

**Reproductive toxicity (including via lactation):** This material does not meet the classification criteria for reproductive toxicity.

**Specific target organ toxicity (repeat exposure):** Repeated or prolonged inhalation of crystalline silica (for example quartz), when present as respirable dust, can cause damage to lungs and lead to silicosis. Crystalline quartz is a significant component of the product, which is supplied as a solid. However if modifications to the product produce a very fine dust then measures should be taken to maintain airborne respirable crystalline silica below the exposure limits described in Section 8.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material does not meet the classification criteria for short-term aquatic toxicity. Acute toxicity estimate (based on ingredients): >100 mg/L.

**Long-term aquatic hazard:** This material does not meet the classification criteria for long-term aquatic toxicity (i.e. chronic aquatic toxicity). Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log  $K_{ow}$  < 4.

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is not readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose of in accordance with local, regional and national regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

### This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants) The  
Rotterdam Convention (Prior Informed Consent)  
International Convention for the Prevention of Pollution from Ships (MARPOL)  
Basel Convention (Hazardous Waste)

### This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC).

## 16. ANY OTHER RELEVANT INFORMATION

Reason for issue: Update

This Safety Data Sheet has been prepared by CETEC Pty Ltd on behalf of its client.

Safety Data Sheets should be reviewed every five years and more frequently if new information on the ingredients emerges. Please ensure that you have a current copy.

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

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

Responsibility for the product as sold is subject to the supplier's standard terms and conditions, a copy of which is sent to customers and is also available upon request.

**Hazard and precautionary statements that may apply in Section 2 if this product was to be modified to form a very fine dust (the statements apply only to that dust):**

### Signal Word

Danger

### Hazard Classifications

Carcinogenicity – Category 1A  
Specific Target Organ Toxicity (repeated exposure) – Category 1



### Hazard Statements

H350i May cause cancer by inhalation  
H372 Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled

## Prevention Precautionary Statements

- P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breath dust.  
P264 Wash hands and exposed skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Response Precautionary Statements

- P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.

## Storage Precautionary Statement

- P405 Store locked up

Note: precautionary statement P405 above is mandatory under the GHS when the H350i hazard statement is indicated. In practical terms it would apply to a permanent storage of dust of this product that may have been collected from repeated grinding or cutting operations. Prompt and safe disposal of the dust would be recommended, according to Section 13 of this document.

## Disposal Precautionary Statement

- P501 Dispose of contents in accordance with regional and national regulations.