

Code	Description	Size	Colour
56219	Gorilla Firestop MS FR	600ml	Grey

Recommended use:	Sealant	
HSNO group standard:	Not Subject	
UN number, shipping name and packaging group:	Not Subject	
Supplier contact details:	Holdfast NZ Ltd	Freephone: 0800 70 10 80
	14 Avalon Drive	Phone: (07) 847 5540
	Nawton	Fax: (07) 847 0324
	Hamilton 3200	Email: sales@holdfast.co.nz
	New Zealand	Website: <a href="http://www.holdfast.co.nz">www.holdfast.co.nz</a>
<b>POISON CENTRE NUMBER: 0800 764 766 (24 hours)</b>		

## 2. Hazards Identification

- 2.1 Hazardous Substances and New Organisms (HSNO) classification:**  
Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC.
- 2.2 Symbols:**  
Not Subject.
- 2.3 Precautionary Statements:**  
Slightly irritant to skin  
Slightly irritant to eyes  
Slightly harmful in the aquatic environment or are otherwise designed for biocidal action

## 3. Composition/Information on Ingredients

### 3.1 Information on the ingredients used in the substance:

Ingredient	CAS No.	Individual HSNO classification	Concentration (% by Wt.)
tris(2-chloro-1-methylethyl) phosphate	13674-84-5	6.1E, 9.1D	1%<C<25%
bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	52829-07-9	6.4A, 9.1B (fish, crustacean, algal)	0.1%<C<2.5%
dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4 245-152-0	No data.	0.1%<C<2.5%

## 4. First Aid Measures

- 4.1 Skin contact:**  
Rinse with water. Take victim to a doctor if irritation persists.
- 4.2 Eye contact:**  
Rinse with water. Take victim to an ophthalmologist if irritation persists.
- 4.3 Inhalation:**  
Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- 4.4 Ingestion:**  
Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting Consult a doctor/medical service if you feel unwell.

## 5. Fire-Fighting Measures

### 5.1 Extinguishing media:

EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed.

### 5.2 Special hazards due to combustion:

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, hydrogen chloride, carbon monoxide - carbon dioxide).

### 5.3 Advice for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus. Dilute toxic gases with water spray.

### 5.4 Hazchem code:

No data.

## 6. Accidental Release Measures

### 6.1 Personal precautions:

See heading 8.2.

### 6.2 Environmental precautions:

Use appropriate containment to avoid environmental contamination. See heading 13.

### 6.3 Methods for cleaning up:

Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. Wash clothing and equipment after handling.

### 6.4 Disposal:

Collect treated spillage. Contact local and regional authorities for further directions.

## 7. Handling and Storage

### 7.1 Handling:

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed.

### 7.2 Storage:

Safe storage requirements: Store at room temperature  
Meet the legal requirements  
Max. storage time: 1 year(s)

Keep away from: No data available

Suitable packaging material: polyethylene.

## 8. Exposure Controls/Personal Protection

### 8.1 Exposure limits:

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
13674-84-5	tris(2-chloro-1-methylethyl) phosphate	No data.	No data.
52829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	No data.	No data.
22673-19-4 245-152-0	dibutylbis(pentane-2,4-dionato-O,O')tin	No data.	No data.

### 8.2 Engineering Controls:

If limit values are applicable and available these will be listed below.

### 8.3 Exposure controls:

Control	Protective measure
Eye	Wear safety glasses with side shields or goggles when handling this material.
Respiratory	Respiratory protection not required in normal conditions.
Skin	Protective clothing should be worn.

## 9. Physical and Chemical Properties

### 9.1 General substance properties:

Property	Details
Appearance	Paste
Odour	Characteristic odour
pH	No data.
Vapour pressure	No data.
Viscosity	No data.
Boiling Point	No data.
Volatile materials	<2% (28/litre)
Freezing/melting point	No data.
Solubility	No data.
Specific gravity/density	1.4
Flash point	No data.
Danger of explosion	No data.
Auto-ignition temperature	No data.
Upper and lower flammability limits	No data.
Corrosiveness	No data.

## 10. Stability and Reactivity

### 10.1 Stability:

Stable under normal conditions.

### 10.2 Conditions to avoid:

Exposure to excessive heat, open flames and sparks.

### 10.3 Incompatible materials to avoid:

No data.

### 10.4 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, hydrogen chloride, carbon monoxide - carbon dioxide).

## 11. Toxicological Information

### 11.1 Summary of Toxicity

This product is not considered harmful.

### 11.2 Acute toxicity:

Test	Data and symptoms of exposure
Oral	The calculated LD <sub>50</sub> for the final product is 3,700 mg/kg (6.1E (oral)). Constituents include acetone (3,000 mg/kg, oral, rat).
Dermal	No evidence of dermal toxicity.
Inhaled	No effects known.

<b>Eye</b>	Causes slight eye irritation
<b>Skin</b>	This product is considered mildly irritating to the skin.

### 11.3 Chronic toxicity:

Test	Data and symptoms of exposure
<b>Sensitisation</b>	Final product not considered a sensitiser. No constituent is considered a sensitiser.
<b>Mutagenicity</b>	Final product not considered mutagenic. No constituent is considered mutagenic.
<b>Carcinogenicity</b>	Final product not considered carcinogenic. No constituent considered carcinogenic.
<b>Reproductive/developmental</b>	Final product not considered a reproductive/developmental toxicant. No constituent is considered a reproductive/developmental toxicant.
<b>Systemic/targeted organs</b>	No effects known.

## 12. Ecological Information

### 12.1 Ecological properties

Ecology	Ecological data
<b>Aquatic ecotoxicity</b>	No data.
<b>Soil ecotoxicity</b>	No data.
<b>Terrestrial vertebrate</b>	No data.
<b>Terrestrial invertebrate</b>	No data.
<b>Mobility</b>	Contains volatile organic compounds (VOC) of 2%.
<b>Degradability</b>	No data.

## 13. Disposal Considerations

### 13.1 Disposal methods:

This product may be disposed of in a landfill provided this product will be kept separated from contact with explosives, oxidisers and ignition sources at all times. This product may be disposed of by burning in an incineration facility. This product may be disposed of by purging. Further details can be provided by local and regional authorities.

### 13.2 Disposal restrictions:

The product must not be disposed of in a landfill or purged within range of legally located persons and places, where upon ignition, would expose them to more blast pressure and heat radiation that described in regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. Burning must be managed to the performance requirements of regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. Disposal of this product by landfill, burning or purging must not exceed any relevant exposure limits and/or environmental exposure limits set for the substance or any of its components. Further details can be provided by local and regional authorities.

### 13.3 Special precautions for disposal:

No data.

## 14. Transport Information

### 14.1 Dangerous goods transport information:

Identification	Details	Identification	Details
<b>UN number</b>	No data.	<b>Proper shipping name</b>	No data.
<b>UN class</b>	No data.	<b>Subsidiary risk</b>	No data.
<b>UN packing group</b>	No data.	<b>Hazchem code</b>	No data.

**14.2 Transport provisions by land according to the Standard for the Transport of Dangerous Goods on Land (NZS 5433):**

Special provision codes 190, 327, 344, 625. When using combination packages do not pack more than 1 L per inner packaging for liquids. Packages should be ≤30 kg.

**14.3 Transport provisions by sea according to the International Maritime Dangerous Goods (IMDG) code:**

Special provision codes 190, 327, 344, 625. When using combination packages do not pack more than 1 L per inner packaging for liquids. Packages should be ≤30 kg.

**14.4 Transport provisions by air according to International Civil Aviation Organization (ICAO) Technical Instructions:**

Special provision codes A145, A167, A802. Packages should be ≤30 kg.

**15. Regulatory Information****15.1 HSNO approval number and Group Standard:**

Not subject.

**15.2 Group Standard conditions and other regulations:**

Condition	Requirement
MSDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Labelling	Never remove or deface label.
Emergency plan	Required when storing >3,000 L.
Approved handler	Required when storing >3,000 L.
Tracking	Not required.
Bundling and secondary containment	Required when storing >3,000 L.
Signage	Required when storing >3,000 L.
Test certificate	Required when storing >3,000 L.
Flammable zone	Required when storing >3,000 L.
Fire extinguisher	Required when storing >3,000 L.

**16. Other Information****16.1 Date of preparation or revision:**

Revised 11<sup>th</sup> August 2014. Format updated.

**16.2 Abbreviations:**

Abbreviation	Description
CAS number	Number assigned to chemical in the Chemical Abstracts Service registry
HAZCHEM code	Code used by fire-fighters to determine correct method of action in the case of fire
HSNO	Hazardous Substances and New Organisms (Act)
ICAO Technical Instructions	International Civil Aviation Organization Technical Instructions
IMDG code	International Maritime Dangerous Goods code controlled by the International Maritime Organization (IMO)
LC <sub>50</sub>	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD <sub>50</sub>	Lethal dose 50% - dose fatal to 50% of the tested population
NZS 5433	New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)
SDS	Safety data sheet

STEL	Short term exposure limit
TWA	Time weighted average (typically measured as 8 hours)
UN number	United nations number
WES	Workplace exposure standard

### 16.3 References

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID). [www.epa.govt.nz](http://www.epa.govt.nz).

Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 7th Edition. [www.mbie.govt.nz](http://www.mbie.govt.nz).

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