

| Code  | Description                  | Size  | Colour    |
|-------|------------------------------|-------|-----------|
| 20250 | Gorilla SMART Expanding Foam | 600ml | Champagne |

|  |                 |   |
|--|-----------------|---|
| Recommended use:                                     |                 | polyurethane  |
| HSNO group standard:                                 |                 | HSR002515   |
| UN number, shipping name and packaging group:        |                 | 1950, Aerosols  |
| 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:

| Classification    | Hazard statement                   |
|-------------------|------------------------------------|
| 2.1.2A            | Flammable aerosol                  |
| 6.1E (Oral)       | Acutely toxic by ingestion         |
| 6.1D (inhalation) | Acutely toxic by inhalation        |
| 6.3A              | Irritating to the skin             |
| 6.4A              | Irritating to the eyes             |
| 6.5A              | Respiratory sensitizer             |
| 6.5B              | Contact sensitizer                 |
| 6.9A              | Target organ toxicant              |
| 9.1D              | Harmful in the aquatic environment |

### 2.2 Symbols:

**DANGER**



### 2.3 Precautionary Statements:

Read label before use.  
 Keep out of reach of children.  
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.  
 Wash hands thoroughly after handling.

## 3. Composition/Information on Ingredients

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

| Ingredient                             | CAS No.                 | Individual HSNO classification | Concentration (%) |
|--|-------------------------|--------------------------------|-------------------|
| tris(2-chloro-1-methylethyl) phosphate | 13674-84-5<br>237-158-7 | 6.1E, 9.1D                     | 1%<C<25%          |
| polymethylene polyphenyl isocyanate    | 9016-87-9               | 6.1B, 6.3B, 6.4A, 6.9A         | C>25%             |
| Propane                                | 74-98-6<br>200-827-9    | 2.1.1A                         | 1%<C<10%          |
| Isobutene                              | 75-28-5<br>200-857-2    | 2.1.1A                         | 1%<C<20%          |
| dimethyl ether                         | 115-10-6<br>204-065-8   | 2.1.1A, 6.4A                   | 1%<C<10%          |
| (1,3-butadiene, conc<0.1%)             |                         |                                |                   |

#### 4. First Aid Measures

##### 4.1 Skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

##### 4.2 Eye contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents. 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:

Call a POISON CENTER or doctor/physician 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. If medical advice is needed, have product container or label at hand.

#### 5. Fire-Fighting Measures

##### 5.1 Extinguishing media:

Quantities of water. Polyvalent foam. BC powder. Carbon dioxide.

##### 5.2 Special hazards due to combustion:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Aerosol may explode under the effect of heat. On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide). May polymerize on exposure to temperature rise. On heating: release of toxic/combustible gases/vapours (hydrogen cyanide).

##### 5.3 Advice for fire-fighters:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. 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 container to avoid environmental contamination. Dam up the liquid spill. See heading 13.

##### 6.3 Methods for cleaning up:

Allow product to solidify and remove it by mechanical means  
Carefully collect the spill/leftovers  
Clean (treat) contaminated surfaces with acetone  
Take collected spill to manufacturer/competent authority  
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:

Use spark-/explosion proof appliances and lighting system  
Keep away from naked flames/heat  
Keep away from ignition sources/sparks  
Observe very strict hygiene - avoid contact

### 7.2 Storage:

Safe storage requirements:  
Store in a cool area  
Keep out of direct sunlight  
Ventilation at floor level  
Fireproof storeroom  
Unauthorized persons are not admitted  
Meet the legal requirements  
Storage temperature: < 50 °C  
Max. storage time: 1 year(s)

Keep away from:

(strong) acids  
(strong) bases  
Amines

Suitable packaging material:  
aerosol

## 8. Exposure Controls/Personal Protection

### 8.1 Exposure limits:

| CAS no.                 | Substance or ingredient                | WES-TWA  | WES-STEL |
|-------------------------|--|----------|----------|
| 13674-84-5<br>237-158-7 | tris(2-chloro-1-methylethyl) phosphate | No data. | No data. |
| 9016-87-9               | polymethylene polyphenyl isocyanate    | No data. | No data. |
| 74-98-6<br>200-827-9    | Propane                                | No data. | No data. |
| 115-10-6<br>204-065-8   | dimethyl ether                         | No data. | No data. |

### 8.2 Engineering Controls:

Use spark/explosion proof appliances and lighting system. Keep away from naked flames and heat. Keep away from ignition sources and sparks. Measure concentration of the product in the air regularly.

### 8.3 Exposure controls:

| Control     | Protective measure  |
|-------------|---|
| Eye         | Use protective goggles.   |
| Respiratory | Wear a gas mask with a filter type A if concentration in air exceeds exposure limits. |
| Skin        | Head/neck protection. Protective clothing.  |

## 9. Physical and Chemical Properties

### 9.1 General substance properties:

| Property   | Details        |
|------------|----------------|
| Appearance | Aerosol        |
| Odour      | Characteristic |
| pH         | No data.       |

|  |                              |
|--|------------------------------|
| <b>Vapour pressure</b>                     | No data.                     |
| <b>Viscosity</b>                           | No data.                     |
| <b>Boiling Point</b>                       | No data.                     |
| <b>Volatile materials</b>                  | No data.                     |
| <b>Freezing/melting point</b>              | No data.                     |
| <b>Solubility</b>                          | No data.                     |
| <b>Specific gravity/density</b>            | No data.                     |
| <b>Flash point</b>                         | No data.                     |
| <b>Danger of explosion</b>                 | No data.                     |
| <b>Auto-ignition temperature</b>           | No data.                     |
| <b>Upper and lower flammability limits</b> | Extremely flammable aerosol. |
| <b>Corrosiveness</b>                       | No data.                     |

## 10. Stability and Reactivity

### 10.1 Stability:

Stable under normal conditions.

### 10.2 Conditions to avoid:

Avoid using/storing this product around non-spark/explosion proof appliances and lighting. Keep away from naked flames, heat, ignition sources and sparks.

### 10.3 Incompatible materials to avoid:

Avoid oxidising agents, strong acids and strong bases.

### 10.4 Hazardous decomposition products:

May polymerize with many compounds e.g.: (strong) bases and amines. Reacts violently with (some) acids/bases.

## 11. Toxicological Information

### 11.1 Summary of Toxicity

This product is considered harmful.

### 11.2 Acute toxicity:

| Test           | Data and symptoms of exposure   |
|----------------|---|
| <b>Oral</b>    | No data.  |
| <b>Dermal</b>  | No data.  |
| <b>Inhaled</b> | Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Runny nose<br>FOLLOWING SYMPTOMS MAY APPEAR LATER:<br>Possible inflammation of the respiratory tract<br>Risk of lung oedema<br>Respiratory difficulties |
| <b>Eye</b>     | Irritation of the eye tissue. Lacrimation.  |
| <b>Skin</b>    | Tingling/irritation of the skin.  |

### 11.3 Chronic toxicity:

| Test                 | Data and symptoms of exposure            |
|----------------------|--|
| <b>Sensitisation</b> | ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: |

|                                   |  |
|-----------------------------------|--|
|                                   | Feeling of weakness<br>Itching<br>Skin rash/inflammation<br>May stain the skin<br>Dry skin<br>Coughing<br>Possible inflammation of the respiratory tract<br>Respiratory difficulties |
| <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>      | polymethylene polyphenyl isocyanate : PISCES >1000 mg/l for 96 h<br>tris(2-chloro-1-methylethyl) phosphate: BRACHYDANIO RERIO 56.2 mg/l for 96 h |
| <b>Soil ecotoxicity</b>         | No data.   |
| <b>Terrestrial vertebrate</b>   | No data.   |
| <b>Terrestrial invertebrate</b> | No data.   |
| <b>Mobility</b>                 | Volatile organic compounds (VOC) 26 %<br>Solubility in/reaction with water Literature reports: insoluble in water                                |
| <b>Degradability</b>            | Contains non readily biodegradable component(s)  |

## 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>        | 1950     | <b>Proper shipping name</b> | Aerosols |
| <b>UN class</b>         | 2        | <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:**

HSR002515

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

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

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

Created 17<sup>th</sup> September 2013

**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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