

**Section 1 – Identification of Chemical Product and Company**

Code	Description	Size	Colour
46201	<b>Mr Gorilla Moss &amp; Mould Assault Concentrate</b>	2 Lt	Pale yellow

Recommended use:	Adhesive	
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>		

**Section 2 – Hazard Identification**
**Statement of Hazardous Nature**

This product is classified as:

**HAZARDOUS SUBSTANCE** according to the criteria of HSNO.

**REGULATED** under NZS5433:2007 Transport of Dangerous Goods on Land

**Hazardous Substances and New Organisms (HSNO) classification:**

Classification	Hazard statements
<b>6.1D oral</b>	Acute oral toxin
<b>6.3A</b>	Causes skin irritation
<b>6.4A</b>	Causes eye irritation
<b>9.1B chronic</b>	Toxic to aquatic life with long lasting effects
<b>9.3C</b>	Harmful to terrestrial vertebrates

**Globally Harmonised System (GHS) classification:**

Acute oral toxicity – Category 4; Skin Effects – Category 2; Eye Effects – Category 2; Chronic Aquatic Toxicity – Category 2; Vertebrate Toxicity – Category 3

**HSNO Signal Word :**
**WARNING**

**Precautionary Statements:**

 Read label before use.  
 Keep out of reach of children.

 Avoid breathing fumes/ sprays/ mists/ vapours  
 Wear protective clothing/ gloves and eye/ face protection  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke while handling  
 Avoid release to the environment

**Section 3 - Composition/Information on Ingredients**

Ingredient	CAS No.	Individual HSNO classification	Concentration (% by Wt.)
Benzyl C <sub>12-16</sub> dimethylammonium chloride	68424-85-1	6.1D <sup>oral</sup> 6.3A 6.4A 9.1A 9.3C	30 %
Ingredients not contributing to classification			

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

#### Section 4 – First Aid Measures

**NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111**

##### Skin or hair contact:

Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.

##### Eye contact:

Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

##### Inhalation:

Remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.

##### Ingestion:

For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. **If swallowed do NOT induce vomiting.** If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

##### General advice and advice for physicians:

Treat symptomatically

For exposures to quaternary ammonium compounds;

For ingestion of concentrated solutions (10% or higher): Swallow promptly a large quantity of milk, egg whites / gelatin solution. If not readily available, a slurry of activated charcoal may be useful. Avoid alcohol. Because of probable mucosal damage omit gastric lavage and emetic drugs. For dilute solutions (2% or less): If little or no emesis appears spontaneously, administer syrup of Ipecac or perform gastric lavage. If hypotension becomes severe, institute measures against circulatory shock. If respiration laboured, administer oxygen and support breathing mechanically. Oropharyngeal airway may be inserted in absence of gag reflex. Epiglottic or laryngeal edema may necessitate a tracheotomy. Persistent convulsions may be controlled by cautious intravenous injection of diazepam or short-acting barbiturate drugs

*[Gosselin et al, Clinical Toxicology of Commercial Products]*

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764766 from anywhere in New Zealand (13 1126 in Australia) and is available at all times. Have this SDS or product label with you when you call.

#### Section 5 - Fire-Fighting Measures

##### Extinguishing media:

Foam; water spray; carbon dioxide

##### Special hazards due to combustion:

Toxic vapours will be emitted

##### Advice for fire-fighters:

When fighting fires involving significant quantities of this product, fire-fighters must a gas tight chemical resistant suit, and limit exposure duration to 1BA set 30 minutes. Cool closed containers with water if they are exposed to the fire. Take account of environmentally hazardous fire-fighting water.

#### Section 6 - Accidental Release Measures

##### Personal precautions:

Clear area of personnel and move upwind, avoid breathing vapours

**Environmental precautions:**

Dam up any liquid spill. Use appropriate containment to avoid environmental contamination.

**Methods for cleaning up:**

- Take up any liquid spill into absorbent material e.g. sand/earth
- Shovel absorbed substance in closing drums
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
- Take collected spill to manufacturer/competent authority
- Wash clothing and equipment after handling

**Disposal:**

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

**Section 7 - Handling and Storage**

**Handling:**

Observe normal hygiene standards. Remove contaminated clothing immediately and wash before re-use. Use only in well ventilated areas.

**Storage:**

Store in original containers. Make sure that containers of this product are kept tightly closed. Keep containers of this product in a well ventilated area. Protect from sunlight. Reacts with copper, zinc, aluminium or their alloys

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

**Exposure limits:**

CAS no.	Substance or ingredient	WES-TWA	WES-STEL

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

**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.  
This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.  
Eyewash unit

**Exposure controls:**

Control	Protective measure
<b>Eye</b>	Wear face shield or safety glasses with side shields or goggles when handling this material. [AS 2919] 
<b>Respiratory</b>	Type B-P of sufficient capacity 
<b>Skin</b>	Butyl; Viton or Neoprene. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn. [AS 2161]Wear protective clothing. 

**Section 9 - Physical and Chemical Properties**
**General substance properties:**

Property	Details
Appearance	Liquid
Odour	Nil
pH	8
Vapour pressure	No data
Viscosity	No data.
Boiling Point	100 C
Volatile materials	70 %
Freezing/melting point	0 C
Solubility	Soluble in water
Specific gravity/density	0.98 g/ml
Flash point	No data
Auto-ignition temperature	No data
Upper and lower flammability limits	Lower –                      Upper -
Corrosiveness	No data.

**Section 10 - Stability and Reactivity**
**Stability:**

Stable under normal conditions.

**Conditions to avoid:**

Exposure to excessive heat, open flames and sparks. Avoid conditions that favour the formation of excessive mists and/or fumes.. Contact with water may release flammable gases

**Incompatible materials to avoid:**

Mild steel; Copper alloys; strong acids

**Hazardous decomposition products:**

Combustion will result in the release of carbon monoxide; carbon dioxide; nitrogen oxides; hydrogen chloride and other toxic vapours

**Section 11 - Toxicological Information**
**Summary of Toxicity**

This product is considered an acute oral toxin; a skin irritant; an eye irritant

**Acute toxicity:**

Test	Data and symptoms of exposure
Oral	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.

<b>Dermal</b>	Skin contact with the material may be harmful; systemic effects may result following absorption.
<b>Inhaled</b>	The material is not thought to produce adverse health effects following inhalation (as classified by EC Directives using animal models).
<b>Eye</b>	The material can produce chemical burns to the eye following direct contact.

**Chronic toxicity:**

Test	Data and symptoms of exposure
<b>Sensitisation</b>	Final product is not considered to be either a respiratory or a skin sensitiser. Contains no constituents that are considered to be respiratory or skin sensitisers.
<b>Mutagenicity</b>	Final product not considered mutagenic. No constituent is considered mutagenic.
<b>Carcinogenicity</b>	Final product is not considered carcinogenic. Contains no constituent that is considered to be a carcinogen
<b>Reproductive/developmental</b>	Final product is not considered a suspected reproductive/ developmental toxicant. Contains no constituents that are considered suspected reproductive/ developmental toxicants
<b>Systemic/targeted organs</b>	Final product is considered to be a target organ toxicant (narcotic). Contains constituents that can be considered as a target organ toxins

**Section 12 - Ecological Information**
**Ecological properties**

Ecology	Ecological data
<b>Aquatic ecotoxicity</b>	Final product is not considered an aquatic toxicant. Contains no constituents that are considered an aquatic toxicant
<b>Soil ecotoxicity</b>	Final product not considered a soil toxicant. No constituent is considered a soil toxicant
<b>Terrestrial vertebrate</b>	Final product is considered a vertebrate toxicant. Contains a constituent that are considered as terrestrial vertebrates toxicant
<b>Terrestrial invertebrate</b>	Final product not considered a terrestrial invertebrate toxicant. No constituent is considered a terrestrial invertebrate toxicant.
<b>Bioaccumulation</b>	No data
<b>Mobility</b>	No data
<b>Degradability</b>	No data.

**Section 13 - Disposal Considerations**
**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.

**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.

**Special precautions for disposal:**

No data.

**Section 14 - Transport Information**



HAZCHEM **3Z**

**Land Transport UNDG**

Class or division 9  
 Subsidiary Risk  
 UN Number **3082**  
 UN Packing Group III  
 Shipping Name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS** contains benzalkonium chloirde  
 Special Provisions 274 331 335 375  
 Limited Quantities 5 Lt

**Air Transport IATA**

ICAO/IATA Class 9  
 ICAO/IATA Subrisk  
 UN/ID Number **3082**  
 Packing Group III  
 Special provision A97 A158 A197  
 Cargo only  
     Packing instructions 964  
     Maximum Qty/pack 450 Lt  
 Passenger and Cargo  
     Packing instructions 964  
     Maximum Qty/pack 450 Lt  
 Passenger & Cargo Limited Quantity  
     Packing instructions Y964  
     Maximum Qty/pack 30 Lt  
 Shipping Name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS** contains benzalkonium chloirde

**Marine Transport IMDG**

IMDG Class 9  
 IMDG Subrisk  
 UN Number **3082**  
 UN Packing Group III  
 EmS Number F-A S-F  
 Special provisions 274 335  
 Limited quantities 5 Lt  
 Marine pollutant Yes  
 Shipping Name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS** contains benzalkonium chloirde

**Section 15 - Regulatory Information**

**HSNO approval number and Group Standard:**

HSR002530      Cleaning Products (Subsidiary Hazard)

**Group Standard conditions and other regulations:**

Condition	Requirement
SDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Emergency plan	Required when present in quantities >1,000 Lt
Approved handler	Not required
Tracking	Not applicable
Bundling and secondary containment	Needs to meet the requirements based on total liquid holding

<b>Signage</b>	Required when present in quantity >1000 Lt
<b>Test certificate</b>	Not required
<b>Hazardous Atmosphere zone</b>	Not applicable
<b>Fire extinguisher</b>	Not applicable

**Benzyl C<sub>12-16</sub> dimethylammonium chloride CAS 68424-85-1** is found on the following regulatory lists

- New Zealand Inventory of Chemicals (NZIoC)
- New Zealand Hazardous Substances and New Organisms (HSNO) Act – Classification of Chemicals

#### National Inventories

Australia	AICS	Y
Canada	DSL	Y
Caanda	NDSL	N
China	IECSC	Y
Europe	EINEC/ELINCS/NLP	Y
Japan	ENCS	N
Korea	KECI	Y
New Zealand	NZIoC	Y
Phillipines	PICCS	Y
USA	TSCA	Y

*Y = All ingredients are on the inventory*

#### Section 16 – Other Information

##### Date of first preparation

February 2016

##### Date of this preparation

February 2016

#### 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

**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).

***The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material in combination with any other material or in any process, unless specified in the text.***

This SDS was prepared by Collievale Enterprises in accord with the EPA "Code of Practice for the Preparation of Safety Data Sheets" [HSNOCOP 8-1 (2006)]  
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End of MSDS