Code	Description	Size	Colour
20107	Gorilla Nailpower Expanding Foam Cleaner Click&Fix	500ml	N/A

Recommended use:		Cleaning aerosol
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: www.holdfast.co.nz
POISON CENTRE NUMBER: 0800 764 766 (24 hours)		

2. Hazards Identification

2.1 Hazardous Substances and New Organisms (HSNO) classification:

Classification	Hazard statement
2.1.2A	Flammable aerosol
6.1E (oral)	Substances that are acutely toxic
6.3B	Substances that are mildly irritating to the skin
6.4A	Substances that are irritating to the eye

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 (%)
Acetone	67-64-1	3.1B, 6.1E, 6.3B, 6.4A	>25%
Propane	74-98-6	2.1.1A	10-20%
Isobutane	75-28-5	2.1.1A	10-20%

4. First Aid Measures

4.1 Skin contact:
If skin irritation occurs: Get medical advice/ attention.

4.2 Eye contact:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

4.3 Inhalation:
Remove the victim into fresh air. If affected individual develops respiratory problems seek medical assistance or consult a doctor.

4.4 Ingestion:
Call a POISON CENTER or doctor/physician if you feel unwell. If medical advice is needed, have product container or label at hand.

4.5 General advice and advice for physicians:
In case of emergency check the vital functions. Airways should be maintained and respiration ensured. If respiratory arrest occurs use artificial respiration or oxygen. If cardiac arrest occurs perform resuscitation. If individual suffers laboured breathing seat individual in half-seated position. If individual is in shock lay on back with legs slightly raised. In case of vomiting, prevent asphyxia/aspiration pneumonia. Keep affected individual warm and monitor constantly. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: seek medical assistance or consult a doctor.

5. Fire-Fighting Measures

5.1 Extinguishing media:
In case of fire use water spray, BC powder or cover with sand/earth.

5.2 Special hazards due to combustion:
Combustion will result in the release of carbon monoxide and carbon dioxide.

5.3 Advice for fire-fighters:
If products are exposed to fire cool closed containers by spraying with water. Fire may result in physical explosion risk. Extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling, a persistent risk of physical explosion remains. Use gloves, protective goggles, protective clothing. If exposed to heat or fire used compressed air/oxygen apparatus.

5.4 Hazchem code:
No data.

6. Accidental Release Measures

6.1 Personal precautions:
Wear gas mask with filter type A if the concentration in the air exceeds exposure limits. Wear gloves, protective goggles and protective clothing. Maintain normal hygiene.

6.2 Environmental precautions:
Dam up the liquid spill. Use appropriate containment to avoid environmental contamination.

6.3 Methods for cleaning up:
Dilute liquid spill into a non combustible material (e.g. sand/earth). Scoop absorbed substance into closing containers. Carefully collect the spill and leftovers. Clean contaminated surfaces with an excess of water. 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 and heat. Keep away from ignition sources and sparks. Gas and vapour heavier than air at 20°C. Maintain normal hygiene.

7.2 Storage:
Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Store in a cool area or fire proof storeroom. Do not exceed legal requirements for storage. Store for a maximum of one year.

8. Exposure Controls/Personal Protection

8.1 Exposure limits:

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
67-64-1	Acetone (bio)	500 ppm, 1,185 mg/m^3 (WES NZ)	1,000 ppm, 2,375 mg/m^3 (WES NZ)
74-98-6	Propane	Simple asphyxiant – may present an explosion hazard (WES NZ)	Simple asphyxiant – may present an explosion hazard (WES NZ)
75-28-5	Isobutane	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	Wear protective clothing.

9. Physical and Chemical Properties

9.1 General substance properties:

Property	Details
Appearance	Aerosol
Odour	Acetone odour
pH	No data.
Vapour pressure	No data.
Viscosity	No data.
Boiling Point	No data.
Volatile materials	Contains volatile organic compounds (VOC) of 100%
Freezing/melting point	No data.
Solubility	Soluble in ether and ethanol.
Specific gravity/density	No data.
Flash point	No data.
Danger of explosion	Explosion limits: 1.5-2.8 vol%
Auto-ignition temperature	No data.
Upper and lower flammability limits	Extremely flammable aerosol.
Corrosiveness	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:
Combustion will result in the release of carbon monoxide and carbon dioxide.

11. Toxicological Information

11.1 Summary of Toxicity
This product is considered harmful.

11.2 Acute toxicity:

Test	Data and symptoms of exposure
Oral	The calculated LD_{50} for the final product is 3,750 mg/kg (6.1E (oral)). Constituents include acetone (3,000 mg/kg, oral, mouse).
Dermal	No evidence of dermal toxicity.
Inhaled	Propane (10-20% of final product) is considered a simple asphyxiant. Avoid inhalation.
Eye	Causes eye irritation (6.4A).
Skin	This product is considered mildly irritating to the skin (6.3B).

11.3 Chronic toxicity:

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

12. Ecological Information

12.1 Ecological properties

Ecology	Ecological data
Aquatic ecotoxicity	No data.
Soil ecotoxicity	No data.
Terrestrial vertebrate	No data.
Terrestrial invertebrate	No data.
Mobility	Contains volatile organic compounds (VOC) of 100%.
Degradability	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 authorites.

13.3 Special precautions for disposal:
No data.

14. Transport Information

14.1 Dangerous goods transport information:

Identification	Details	Identification	Details
UN number	1950	**Proper shipping name**	Aerosols
UN class	2	**Subsidiary risk**	No data.
UN packing group	No data.	**Hazchem code**	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
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.
Bunding 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 & reason:
Revised 31st July 2013. HSNO information added & format revised.

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_{50}	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD_{50}	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.
Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 7th Edition. www.mbie.govt.nz.

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