

SAFETY DATA SHEET

Item Code: N0190

Section 1.	Identification of the material and the supplier
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Item Code:	N0190
Product:	Holdfast Firestop 1
Product Use:	Polyurethane
New Zealand Supplier:	Realcold Ltd
Address:	9 Prescott Street Penrose, Auckland
Telephone:	09 526 5700
Fax Number:	09 526 5721
Emergency Telephone:	09 526 5700 0800 766 764 (National Poison Centre)
Manufacturer:	Holdfast NZ, 14 Avalon Drive, Hamilton
Date of MSDS Preparation:	14 March 2017 – ver 2

Section 2.	Hazards Identification
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The Manufacturers has stated that this substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Pictograms



Flammable



Toxic



Chronic

HSNO Class.	Hazard Code	Hazard Statement	EU Risk Phrases
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2.1.2A	H223	Flammable Aerosol	R12
6.1D (inhalation)	H332	Harmful if inhaled.	R20
6.3A	H315	Causes skin irritation.	R38
6.4A	H319	Causes eye irritation.	R36
6.5A	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	R42
6.9(Respiratory tract irritant)	H335	May cause respiratory irritation.	R37

Prevention Code Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P104	Read safety data sheet before use
P210	Keep away from hot surfaces, heat and sparks. No smoking.
P211	Do not spray on an open flame or other ignition source
P251	Pressurised container. Do not pierce or burn, even after use.
P261	Avoid breathing fumes or vapours.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective protective clothing.
P285	In case of inadequate ventilation wear respiratory protection.*

Response Code Response Statement

P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before re-use.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage Code Storage Statement

P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C.

Disposal Code Disposal Statement

P501	Dispose of according to Local Authorities
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Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Polymethylene polyphenyl isocyanate	30-60	9016-87-9
Halogenated polyetherpolyol	1-10	86675-46-9
Norflurance	1-10	811-97-2
Dimethyl ether	1-10	115-10-6
Isobutane	1-10	75-28-5

Section 4. First Aid Measures

Product Name: Firestop 1

Item No: N0190

Issued by: Realcold Ltd

Date of MSDS: 22 December 2011

Tel: 64 9 526 5700

Routes of Exposure:

If in Eyes	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.
If on Skin	Remove contaminated clothing and wash skin with warm soapy water. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance
If Swallowed	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Section 5. Fire Fighting Measures

Hazard Type	Extremely Flammable
Hazards from decomposition products	Gas/vapour spreads at floor level: ignition hazard. Gas/vapour flammable with air within explosion limits. On heating: release of toxic/combustible gases/vapours: hydrogen cyanide. Aerosol may explode under the effect of heat.
Suitable Extinguishing media	Quantities of water, polyvalent foam, BC powder, carbon dioxide.
Precautions for firefighters and special protective clothing	Cool closed containers with water if they are exposed to the fire. Dilute toxic gases with water spray. Do not move the load if exposed to heat. Heat/fire exposure: compressed air/oxygen apparatus. Protective clothing for exposure to chemicals.
HAZCHEM CODE	2YE

Section 6. Accidental Release Measures

Use appropriate containment to avoid environmental contamination. Allow product to solidify and remove it by mechanical means. Remove uncured foam with acetone.

Section 7. Handling and Storage

Handling	Observe very strict hygiene – avoid contact. Use spark- /explosion proof appliances and lighting system. Remove contaminated clothing immediately. Clean contaminated clothing.
Storage	Keep out of direct sunlight. Store in a cool area. Store in a dry area. Ventilation at floor level. Keep away from: heat sources, ignition sources, acids, bases.

Temperature: < 50°C.

Storage life: 365 days.

Packaging: Suitable: aerosol dispenser.

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Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	CAS #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Dimethylether	[115-10-6]	400	766	500	958
Norflurane	[811-97-2]	1000	4240		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls Use only in well ventilated area.

Personal Protection

Respiratory protection: In case of insufficient ventilation: respiratory protection with filtertype A.

Hand protection: Chemically resistant gloves.

Eye protection: Safety glasses.

Skin protection: Suitable protective clothing.

Section 9 Physical and Chemical Properties

Appearance	Aerosol
Odour	Characteristic
Relative Vapour Density	>1
Solubility in Water	Insoluble
Soluble In	Organic Solvents

Section 10. Stability and Reactivity

Stability of Substance Unstable on exposure to heat.
Conditions to Avoid Keep away from: heat sources, ignition sources, acids, bases.

Incompatible Materials

Hazardous Decomposition

Products

On heating: release of toxic/combustible gases/vapours: hydrogen cyanide. May polymerize on exposure to temperature rise. On burning: release of toxic and corrosive gases/vapours: phosphorus oxides, nitrous vapours, hydrogen chloride, hydrofluoric acid, carbon monoxide, carbon dioxide and formation of small quantities of hydrobromic acid. Polymerizes with many compounds e.g. (strong) bases and amines. Reacts violently with (some) acids/bases.

Section 11 Toxicological Information

Acute Toxicity:

Polymethylene Polyphenyl Isocyanate: LD50 oral rat: >10000 mg/kg
LD50 dermal rabbit: > 5000 mg/kg

Norflurane: LC50 inhalation rat: > 2000 mg/1/4 h
LC50 inhalation rat: > 500000 ppm/4 h

Dimethyl Ether: LC50 inhalation rat: 309 mg/1/4 h
LC50 inhalation rat: 163991 ppm/4 h

Propane: LC50 inhalation rat: 513 mg/1/4 h
LC50 inhalation rat: 280000 ppm/4 h

Isobutane: LC50 inhalation rat: > 50 mg/1/4 h

Chronic Toxicity:

Norflurane: Teratogenicity (MAK): Group C.
Dimethyl Ether: Inhalation, eyes and skin.

Acute effects:

Inhalation:

Dry/sore throat, coughing, irritation of the respiratory tract, irritation of the nasal mucous membranes, runny nose.

May occur later:

Inflammation of the respiratory tract, risk of lung oedema, respiratory difficulties.

Skin: Tingling/irritation of the skin.

Eye: Irritation of the eye tissue. Lacrimation.

Chronic effects:

May cause sensitization by skin contact. May cause sensitization by inhalation. Contains substance of group C (MAK-Schwangerschaftsgruppe) (norflurane). Not listed in mutagenicity class (EC, MAK). On continuous exposure: Body temperature rise, tremor, feeling of weakness, headache, skin rash/inflammation, may stain the skin, dry skin, risk of pneumonia.

Section 12. Ecotoxicological Information

No known effects to the environment

Section 13. Disposal Considerations

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose off according to Local Regulations

Section 14 Transport Information

Classified as a Dangerous Good for transport

Road and Rail Transport (in NZ ; NZS 5433:2007)

UN No:	1950
Class-primary	2.1
Packing Group	Not allocated
Proper Shipping Name:	AEROSOLS

Air Transport

UN No: 1950
 Class-primary 2.1
 Packing Group Not allocated
 Proper Shipping Name: AEROSOLS
Marine Transport

UN No: 1950
 Class-primary 2.1
 Packing Group Not allocated
 Proper Shipping Name: AEROSOLS

Section 15 Regulatory Information

EPA Approval: Aerosols (flammable) Group Standard HSR002515

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Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	3000 L awc (aggregate water content)
Location Certificate	3000 L awc
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	3000 L awc
Emergency Response Plan trigger Quantities	1000L (6.5A)

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been issued by Realcold Limited and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Realcold Limited or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Realcold Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Realcold Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the New Zealand distributor, Realcold Ltd, if further information is required.

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