

FyreBox™

Safety Datasheet

FYREBOX™

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1. SUBSTANCE IDENTIFICATION

Product Name	FyreBox™
Product Code	BFB-150 / BFB-150-XD / BFB-200 / BFB-300 / BFB-300-XD / BFB-450 / BFB-450-SL / BFB-550 / BFB-600 / BFB-600-XD / BFB-750 / BFB-900 / BFB-JR
Use/Description	Multi Service Pipe & Cable Transit for firestopping bundled services. Intumescent contained within internally sealed sachets fitted to the internal perimeter of a powder coated steel enclosure with FR Brushes to openings.

2. HAZARDS IDENTIFICATION**2.1 Classification of the Mixture**

GHS-US classification (Globally Harmonised System of Classification and Labelling of Chemicals (GHS)).

Skin Corrosion/irritation, Category 3	H316
Sensitization, Skin Category 1B	H317
Eye irritation Category 2B	H320
Specific Target Organ toxicity, single exposure, Respiratory Tract Irritation, Category 3	H335

2.2. Label Elements GHS-US labelling

Hazard Pictograms	 GHS07
Signal Word	Warning
Hazard Statements	<p>H316 – May Cause mild skin irritation H317 – May cause an allergic skin reaction H320 – May Cause eye irritation H335 – May cause respiratory irritation</p>
Precautionary Statements	<p>P261 – Avoid breathing fumes/gas/mist/vapours/spray/dust P264 – Wash hands thoroughly after handling P265 – Do not touch eyes P271 – Use in a well-ventilated area P280 – Wear eye protection, protective clothing, protective gloves</p>
Response Statements	<p>P302 + P352 – IF ON SKIN, wash with plenty of water. P332 + P313 – If skin irritation occurs seek medical advice /treatment. P333 + P313 If SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. P305 + P354 + P338 – IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present band easy to do so. Continue rinsing. P304 + P340 – IF VAPOURS INHALED Remove person to fresh air and keep comfortable for breathing. P337 + P317 – If eye irritation persists seek medical advice/attention. P362 + P364 – Remove contaminated clothing and wash before reuse.</p>
Storage Requirements	<p>P403 + P233 – Store in well ventilated space. Keep container tightly closed.</p>
Disposal Requirements	<p>P501: Dispose of contents/container in accordance with the relevant regulations.</p>

2.3. Other Hazards

No other information available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion	Classification
Aluminium Hydroxide	21645-51-2	10 -30%	Not Classified
Cellulose (Substance with a community workplace exposure limit)		1 -10%	Not Classified
1,2-benzisothiazol-3(2H)-one 1,2-benzisothiazolin-3-one	26334-33-5	0.008 %	Acute toxicity – category 4 Skin irritation – category 2 Eye damage – category 1 Hazardous to the aquatic environment (acute) – category 1 Skin sensitisation – category 1A
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	0.001%	Acute toxicity (inhalation) – category 2 Acute toxicity (dermal) – category 2 Acute toxicity (ingestion) – category 3 Skin corrosion – category 1C Eye damage – category 1 Skin sensitisation – category 1A Hazardous to the aquatic environment (acute) – category 1 Hazardous to the aquatic environment (chronic) – category 1
Other ingredients (deemed non-hazardous)		Balance	

4. FIRST AID MEASURES

Inhalation	Vapours may cause minor irritation of the throat and/or tightness in the chest. Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.
Ingestion	Ingestion may cause irritation to the linings of the mouth, throat and gastrointestinal tract. Wash mouth out with water. Seek immediate medical assistance if you feel unwell.
Skin Contact	May cause slight irritation and redness at contact site. Wash off skin thoroughly with water. Shower if necessary. Seek medical attention for persistent irritation of the skin.
Eye Contact	May cause minor irritation and redness. Flush thoroughly with flowing water for 15 minutes to remove all traces. Remove contact lenses if present and easy to do so. Get specialist medical attention if required.
General First Aid Measures	If you feel unwell seek medical advice. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Extinguishing media suitable for surrounding fire should be used. (Water Spray, Dry Powder, Foam, Carbon Dioxide).
Hazardous Combustion Products	Toxic fumes are likely to be emitted during combustion.
Protective Equipment & Precautions for Firefighters	Wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin and eyes.
Emergency Responder Precautions	Do not attempt to take action without suitable protective equipment. Refer to Section 8 of this document for further information.
Environmental Precautions	Should not be released into the environment. Do not allow to enter drains or water courses. Advise emergency services and appropriate local environment authority if contamination occurs.
Cleaning up and Containment	Wash the spillage site with large quantities of water. Soak up with inert absorbent. Notify authorities if product enters sewers or public waters. Dispose of solid residues at an authorised site. Keep in suitable sealed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid Dust Formation.
Hygiene measures	Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Conditions for safe storage including any incompatibilities	Store in a cool, dry, well-ventilated area. No known storage incompatibilities.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Standards

Chemical Entity	Reference	TWA (mg/m ³)
Aluminium Hydroxide	Safe Work Australia Work Safe New Zealand OEL (UK)	10mg/m ³ (Aluminium Oxide) Not Classified 10mg/m ³ Total Al Dust 4mg/m ³ Respirable Al Dust
Cellulose	Safe Work Australia Work Safe New Zealand	10mg/m ³ 10mg/m ³
1,2-benzisothiazol-3(2H)-one	No exposure Limits available	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one & 2methyl-2H-isothiazol-3-one (3:1)-3one	No exposure Limits available	

8.2. Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:	
Respiratory protection	Dusk Mask. If insufficient ventilation, use a NIOSH/MSHA approved respirator.
Skin protection	Wear standard duty protective gloves (Refer AS 2161: Industrial safety gloves and mittens), loose comfortable, and boots. Long-sleeved shirts and long trousers are recommended.
Eye protection	Non-fogging chemical resistant safety goggles, glasses (AS/NZS 1336: Recommended practices for eye protection in the occupational environment).

8.3. Personal protective equipment symbols



Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the toilet and at the end of the working period.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Paste
Colour	Grey
Odour	Slight
Odour Threshold	Data unavailable.
pH	5-9
Melting point /Freezing point	Data unavailable.
Boiling Point & Boiling Range	Data unavailable.
Evaporation Rate	Not Applicable.
Flash Point	Data unavailable.
Flammability	Not Flammable.
Upper/Lower Flammability/Explosive Limits	Data unavailable.
Vapour pressure	Data unavailable.
Vapour density	Data unavailable.
Relative density	1.3-1.4
Solubility	Data unavailable.

Partition Coefficient (n-octanol/water)	Data unavailable.
Auto-Ignition Temperature	Data unavailable.
Decomposition Temperature	> 170 °C
Kinematic Viscosity	Data unavailable.
Specific Heat Value	Data unavailable.
Saturated Vapour Concentration	Data unavailable.
Release of invisible flammable vapours and gases	Data unavailable.
Particle Size & Size Distribution	Data unavailable.

10. STABILITY AND REACTIVITY

Stability	Product is stable under normal conditions of use, storage and transport.
Reactivity	Product is non-reactive under normal conditions of use, storage and transport.
Conditions to avoid	None, under recommended storage and handling conditions.
Incompatible Materials	Strong Acids, Strong Oxidizing Agents.
Hazardous Decomposition Products	None, under normal conditions of storage and use.
Hazardous Reactions	None known under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (oral)	Not classified.
Acute Toxicity (dermal)	Not classified.
Acute Toxicity (inhalation)	Not classified.
Skin Corrosion/irritation	Not classified (pH 5-9) Aluminium Hydroxide pH 9
Serious Eye damage/irritation	Not classified (pH 5-9) Aluminium Hydroxide pH 9
Respiratory or Skin sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive Toxicity	Not classified.
NOEL (animal/male, FO/P)	1000mg/kg bodyweight.
STOT – Single exposure	Not classified.
STOT – repeated exposure	Not classified.
Aspirational hazard	Not classified.
Toxicologically Synergistic	Not classified.
Irritation	Not classified.
Sensitization	Not classified.
Mutagenic Effects	Not classified.
Developmental Effects	Not classified.
Teratogenicity	Not classified.
Endocrine disruptor Information	Not classified.

Component	LD50 Oral Rat	LD50 Dermal	LC50 Inhalation -Rat
Aluminium Hydroxide	LD50 >2000mg/kg bodyweight	Not Listed	LD50= >2.3 mg/l air
2-Methyl-3-isothiazolone	LD50 232 - 249 mg/kg (Rat)	LD50 = 200 mg/kg (Rabbit)	LD50 = 0.11 mg/L (Rat) 4 h
Cellulose	Not Listed	Not Listed	Not Listed

Symptoms after inhalation	Vapours may cause irritation of the throat and/or tightness in the chest.
Symptoms after skin contact	Mild skin irritation with itching and redness at point of contact.
Symptoms after eye contact	Contact with eyes may cause severe eye irritation, severe pain, cause eyes to water profusely, cause vision to become blurred, and may cause permanent eye damage.
Symptoms after ingestion	Ingestion may result in soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Nausea and stomach pain may occur	Not classified.
Other Adverse effects	The toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity	<p>The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.</p> <p>Hazardous to the aquatic environment, short term (acute) – Not classified Hazardous to the aquatic environment, long term (chronic) – Not classified.</p>
Persistence & Degradability	Not rapidly degradable. No additional information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Expected to be highly mobile in soil.
Results of PBT and vPvB assessment	No additional information available.
Other information	No additional information available.

13. DISPOSAL CONSIDERATIONS

Disposal Recommendations	Dispose of in compliance with federal, provincial, state, territory and local requirements.
Special precautions	Avoid release to the environment.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport by road, rail, sea or air

	ADG	LTR	IATA	IMDG/ IMO	ADR	ADN	RID
UN Number	Not Applicable						
UN Proper Shipping Code	Not Applicable						
Transport Hazard Classes	Not Applicable						
Packing Group	Not Applicable						
Environmental Hazards	Not Applicable						

Special Precautions:

Transport by Sea	None
Transport by Road	None
Transport by Air	None
Transport by Rail	None
Inland Waterway Transport	None

15. REGULATORY INFORMATION

National Regulations	<p>Contains no AICS (Australian Inventory of Chemical Substances) restrictions.</p> <p>Contains no NZACVM (New Zealand Agricultural Compounds and Veterinary Medicines Act 1997) restrictions.</p>
International Regulations	<p>Contains no substances listed on REACH Annex XVII (Restriction List) .</p> <p>Contains no substances listed on REACH Annex XIV (Authorisation List) Contains no substances listed on REACH Candidate List (SVHC).</p> <p>Contains no substances listed on the PIC List (Regulation EU649/2012 export and import of hazardous chemicals).</p> <p>Contains no substances listed on the POP List (Regulation EU2019/1021 -Persistent Organic Chemicals).</p> <p>Contains no substances listed on the Ozone Depletion List (Regulation EU1005/2009 -Ozone Depleting Chemicals).</p> <p>Contains no substances listed on the Explosives Precursors List (Regulation EU2019/1148 -Explosive Precursors).</p> <p>Contains no substances listed on the Drug Precursors List (Regulation EC 273/2004 -Substances used in the illicit manufacture of narcotic drugs and psychotropic substances).</p>

16. OTHER INFORMATION

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ACGIH	American Conference of Governmental Industrial Hygienists.
ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail.
AICS	Australian Inventory of Chemical Substances.
ASCC	Australian Safety and Compensation Council.
ADN	European Agreement concerning International Carriage of Dangerous Goods by Inland Waterways.
ADR	European Agreement concerning International Carriage of Dangerous Goods by Road.
CAS	Chemical Abstracts Service Registry Number.
DOT	Department of Transportation (USA).
GHS	Globally Harmonised System of Classification and Labelling of Chemicals.
HSIS	Hazardous Substances Information System.

ICAO	International Civil Aviation Organisation.
IOEL	Indicative Occupational Exposure Limit (European Union).
IARC	International Agency for Research on Cancer.
IATA	International Air Transport Association.
IMDG	International Maritime Organisation Rules.
LTR	Land Transport Rules -Dangerous Goods. New Zealand.
MSHA	Mine Safety and Health Administration.
NIOSH	National Institute for Occupational Safety and Health.
NOAEL	Non-Observed Adverse Effect Level.
NTP	National Toxicity Program (USA).
OSHA	Occupational Safety & Health Administration (USA).
OEL	Occupational Exposure Limit (UK).
PIC	Prior Informed Consent List (EU649/2012 export/import of hazardous chemicals).
PBT	Persistent, Bio accumulative and Toxic Assessment.
vPvB	Very Persistent and Very Bio accumulative Assessment.
STOT	Specific Target Organ Toxicity.
STEL	Short term exposure limit.
TWA	Time weighted average.
TDG	Transportation of Dangerous Goods Act (Canada).
REACH	EU Regulation - acronym for the Registration, Evaluation, Authorization and Restriction of Chemicals.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.
WEL	Workplace Exposure Limit (United Kingdom).
LCLo	Lethal Concentration Low – lowest concentration causing death.
LDLo	Lethal Dose Low – lowest dose causing death.
LC50	Lethal Concentration required to kill 50% of test population.
EC50	Half maximal effective concentration.

**The information within this SDS has been prepared and issued by:
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The information contained herein is based on the present state of our knowledge. This document characterises the product with regard to the appropriate safety precautions, and is only proposed as a guide when applied for its intended use. Each intended user should consult this SDS, and perform their own appropriate risk assessment in context to how the product will be handled and used in the workplace. Sharp and Howells Pty Ltd will not be responsible for any loss or damages resulting from use of or reliance on the information and advice contained herein.

LIMITATION

BOSS Passive Fire Pty Ltd has provided the above technical information in good faith and to the best of its knowledge. This information was deemed to be correct at the time of publication. Should any data come to BOSS Passive Fire's attention relating to the fire resistance or performance of the product described BOSS Passive Fire reserve the right to amend this report.

BOSS Passive Fire strive to constantly improve and develop products so this information may change without notice.

The information contained herein has been developed as a guide only and it does not constitute a guarantee of compliance of all applications. Each project and/or application may have specific requirements and you should investigate these carefully. Ensure that you have read and understood the appropriate certification relative to your needs, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. For updates on the range of BOSS Fire® certification please contact BOSS Technical Services.

FURTHER INFORMATION

For additional technical information on the performance of FireMastic-HPE™, other BOSS Fire® products or any other BOSS Fire® related information please contact us on:

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