

FyreBox™ Cast-In

Safety Datasheet

FYREBOX™ CAST-IN

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Name	FyreBox™ Cast-In
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1. SUBSTANCE IDENTIFICATION

Product Name	FyreBox™ Cast-In
Product Code	BFBCI-300, BFBCI-450, BFBCI-600, BFBCI-750, BFBCI-900
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))

Serious eye damage, Category 2	H319
Reproductive Toxicity, Category 2	H361
Carcinogenicity, Category 2	H351
Hazardous to aquatic environments. Chronic Hazard Category 3	H412

2.2. Label Elements GHS-US labelling

Hazard Pictograms	 GHS07  GHS08
Signal Word	Warning
Hazardous Ingredients	Melamine
Hazard Statements	<p>H302 - Harmful if swallowed.</p> <p>H319- Causes serious eye irritation.</p> <p>H361 - Suspected of damaging fertility or the unborn child.</p> <p>H351 - Suspected of causing cancer.</p> <p>H412 - Harmful to aquatic life with long lasting effects.</p>
Precautionary Statements	<p>P201 - Obtain special instructions before use.</p> <p>P202 - Do not handle until all safety precautions have been read and understood.</p> <p>P264 - Wash hands thoroughly after handling.</p> <p>P273 - Avoid release to the environment.</p> <p>P280 - Wear eye protection, protective clothing, protective gloves.</p>
Response Statements	<p>P305 & P351 & P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.</p> <p>P308 & P313- If exposed or concerned: Seek medical advice/attention.</p> <p>P337 & P313- If eye irritation persists: Seek medical advice/attention.</p>
Disposal Requirements	P501 : Dispose of contents/container in accordance with the relevant regulations.

2.3. Other Hazards

No other information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion
Graphite	7782-42-5	10 - 50 %
Aluminium Hydroxide	21645-51-2	10 - 30 %
Melamine	108-78-1	1 - 10%
Polypropylene Glycol Alkyl Phenol Ether	9064-15-7	1 - 10%
Isothiazolones, mixed	55965-84-9	0.01 - 1 %
Other ingredients (deemed non-hazardous.)		Balance

4. FIRST AID MEASURES

Inhalation	Remove person to fresh air and keep comfortable for breathing.
Ingestion	Contact Poison Information Centre on 13 11 26 (Australia wide) or a doctor if you feel unwell. Wash mouth with water.
Skin Contact	Wash off skin thoroughly with water. Shower if necessary. Seek medical attention for persistent irritation of the skin.
Eye Contact	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.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Dry Chemical. Carbon Dioxide (CO ₂). Water spray, Foam.
Hazardous Combustion Products	Carbon monoxide, Carbon Dioxide.
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.
Environmental Precautions	Should not be released into the environment 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/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Conditions for safe storage	Store in a cool, dry, well-ventilated area. Keep container tightly closed. Keep securely stored.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Standards

Chemical Entity	Reference	TWA (mg/m ³)	STEL(mg/m ³)
Cellulose	OIELV (EU)	6mg/m ³	
Aluminium Hydroxide	WEL (UK)	10mg/m ³	4 mg/m ³
Graphite	SWA (AUS)	3mg/m ³	
Melamine	Occupational exposure limits not established.		

8.2. Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:	
Respiratory protection	If insufficient ventilation, use a NIOSH/MSHA approved respirator.
Skin protection	Wear standard duty gloves (AS 2161: Industrial safety gloves and mittens), loose comfortable clothing, 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.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste
Appearance	Grey/Black.
Odour	Slight, Barely Discernible.
Density	1.4 g/cm ³
Odour Threshold	Data unavailable.
Boiling Point & Boiling Range	Data unavailable.
Flash Point	> 200 °C
Evaporation Rate	Data unavailable.
Flammability	Not Flammable.
Upper/Lower Flammability/Explosive Limits	Data unavailable.
Vapour pressure	Data unavailable.
Vapour density	Data unavailable.
Water Solubility	Miscible with water.
pH (1% solution)	7.7
Partition Coefficient	Data unavailable.
Auto-Ignition Temperature	Data unavailable.
Viscosity	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.

Component	LD50 Oral Rat	LD50 Dermal	LC50 Inhalation -Rat
Aluminium Hydroxide	LD50 >2000mg/kg bodyweight	Not Listed	LD50= >2.3 mg/l air
Graphite	LD50 >2000mg/kg bodyweight	Not Listed	LC50 > 2000 mg/m ³ (Rat) 4 h
Melamine	LD50 >3000mg/kg bodyweight	LD50>1mg/kg (Rabbit)	LC50= >5.19 mg/l air

Toxicologically Synergistic	No information available.
Irritation	No information available.
Sensitization	No information available.
Carcinogenicity	Melamine is listed as Group 2B suspected carcinogen by IARC.
Mutagenic Effects	No information available.
Reproductive Effects	Melamine - Possible risk of impaired fertility.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT – Single exposure	None known.
STOT-repeated exposure	None known.
Aspirational hazard	No information available.
Endocrine disruptor Information	No information available.
Symptoms after inhalation	Inhalation is unlikely.
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.
Other Adverse effects	The toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

Toxicity	Ecology General: - Harmful to aquatic Life with long lasting effects Hazardous to aquatic environment - short term -acute (Not classified) Hazardous to aquatic environment - long term -chronic: Harmful to aquatic life with long lasting effects.
Persistence & Degradability	Not rapidly degradable.
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.
Other information	Avoid release into the environment.

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.

DOT.	Not Regulated.
IATA.	Not Regulated.
IMDG/IMO	Not Regulated.
TDG	Not Regulated.
ADG	Not Regulated.

15. REGULATORY INFORMATION

National Regulations	Contains no AICS (Australian Inventory of Chemical Substances) restrictions.
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16. OTHER INFORMATION

Creation Date: September 2021 | **Version:** 1.00 | **Due for revision:** September 2026

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.
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.
IOELV	Indicative Occupational Exposure Limit Value (European Union).
IARC	International Agency for Research on Cancer.
IATA	International Air Transport Association.
IMDG	International Maritime Organisation Rules.
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.
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.

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 FyreBox™ Cast-In, other BOSS Fire® products or any other BOSS Fire® related information please contact us on:

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