

## SAFETY DATASHEET

## BOSS FyreBox™

Issue Date: 17/11/2023

Review Date: 17/11/2028

|                        |  |
|------------------------|--|
| <b>PRODUCT</b>         | BOSS FyreBox™  |
| <b>COMPANY NAME</b>    | BOSS Passive Fire                                      |
| <b>ADDRESS</b>         | Unit 1, 16 Atkinson Rd, Taren Point NSW 2229 AUSTRALIA |
| <b>EMERGENCY PHONE</b> | 1300 502 677   |
| <b>PHONE</b>           | 02 9531 8591   |
| <b>FAX</b>             | 1300 602 677   |
| <b>EMAIL</b>           | info@bossfire.com.au                                   |
| <b>WEB</b>             | bossfire.com.au  |

## SECTION 1: PRODUCT NAME

|                        |  |
|------------------------|--|
| <b>Product Name</b>    | BOSS FyreBox / BOSS Fire Transit Box   |
| <b>Product Code</b>    | 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   |
| <b>Use/Description</b> | Multi Service Pipe & Cable Transit for firestopping bundled services.<br>Intumescent contained within internally sealed sachets fitted to the internal perimeter of a powder coated steel enclosure with FR Brushes to openings. |

## SECTION 2: HAZARDS IDENTIFICATION

This Safety Data Sheet refers to the Intumescent contained within the internally sealed sachets within the steel enclosure.

**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 |

## 2.1 Label Elements

### GHS-US labelling

#### Hazard Pictograms:



#### Signal Word:

Warning

#### Hazardous Ingredients

Melamine

#### Hazard Statements:

**H302**- Harmful if swallowed

**H319**- Causes serious eye irritation

**H361** – Suspected of damaging fertility or the unborn child

**H351** – Suspected of causing cancer

**H412** - Harmful to aquatic life with long lasting effects

#### Precautionary Statements:

**P201**- Obtain special instructions before use

**P202** - Do not handle until all safety precautions have been read and understood

**P264**- Wash hands thoroughly after handling

**P273**- Avoid release to the environment

**P280**- Wear eye protection, protective clothing, protective gloves

#### Response Statements:

**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.

**P308 & P313**- If exposed or concerned: Seek medical advice/attention

**P337 & P313**- If eye irritation persists: Seek medical advice/attention

#### Disposal Requirements:

**P501**: Dispose of contents/container in accordance with the relevant regulations.

## 2.2 Other Hazards

No other information available

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemical Entity</u>                    | <u>CAS No.</u> | <u>Proportion</u> |
|---|----------------|-------------------|
| 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           |

### SECTION 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.

### SECTION 5: FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

Dry Chemical. Carbon Dioxide (CO<sub>2</sub>). Water spray, Foam

**Hazardous Combustion Products:**

Carbon monoxide, Carbon Dioxide

**Protective Equipment & Precautions for Firefighters:**

Wear self-contained breathing apparatus and full protective gear.

### SECTION 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.

## SECTION 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.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Standards:

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

### 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*)

### 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

## SECTION 10: STABILITY AND REACTIVITY

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

## SECTION 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  | LC50= >2.3 mg/l air  |

| Component | LD50 Oral Rat              | LD50 Dermal | LC50 Inhalation -Rat                      |
|-----------|----------------------------|-------------|---|
| Graphite  | LD50 >2000mg/kg bodyweight | Not Listed  | LC50 > 2000 mg/m <sup>3</sup> ( Rat ) 4 h |

| Component | LD50 Oral                  | LD50 Dermal          | LC50 Inhalation - Rat |
|-----------|----------------------------|----------------------|-----------------------|
| Melamine  | LD50 >3000mg/kg bodyweight | LD50>1mg/kg (Rabbit) | LC50= >5.19 mg/l air  |

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Toxicologically Synergistic :</b> | No information available |
| <b>Irritation:</b>                   | No information available |
| <b>Sensitization:</b>                | No information available |

|   |  |
|---|--|
| <b>Carcinogenicity:</b>                 | Melamine is listed as Group 2B suspected carcinogen by IARC  |
| <b>Mutagenic Effects:</b>               | No information available   |
| <b>Reproductive Effects:</b>            | Melamine - Possible risk of impaired fertility   |
| <b>Developmental Effects:</b>           | No information available   |
| <b>Teratogenicity:</b>                  | No information available   |
| <b>STOT – Single exposure:</b>          | None known   |
| <b>STOT-repeated exposure:</b>          | None known   |
| <b>Aspirational hazard:</b>             | No information available   |
| <b>Endocrine disruptor Information:</b> | No information available   |
| <b>Symptoms after inhalation:</b>       | Inhalation is unlikely   |
| <b>Symptoms after skin contact:</b>     | Mild skin irritation with itching and redness at point of contact  |
| <b>Symptoms after eye contact:</b>      | 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. |
| <b>Symptoms after ingestion:</b>        | Ingestion may result in soreness and redness of the mouth and throat. Nausea and stomach pain may occur.   |
| <b>Other Adverse effects:</b>           | The toxicological properties have not been fully investigated  |

## SECTION 12: ECOLOGICAL INFORMATION

|   |   |
|---|---|
| <b>Toxicity:</b>                        | 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 |
| <b>Persistence &amp; Degradability:</b> | Not rapidly degradable  |
| <b>Bioaccumulation/Accumulation:</b>    | No information available  |
| <b>Mobility:</b>                        | No information available  |
| <b>Other information:</b>               | Avoid release into the environment  |

## SECTION 13: DISPOSAL CONSIDERATIONS

|                                  |   |
|----------------------------------|---|
| <b>Disposal Recommendations:</b> | Dispose of in compliance with federal, provincial, state, territory and local requirements. |
| <b>Special precautions:</b>      | Avoid release to the environment  |

## SECTION 14: TRANSPORT INFORMATION

|                 |               |
|-----------------|---------------|
| <u>DOT.</u>     | Not Regulated |
| <u>IATA.</u>    | Not Regulated |
| <u>IMDG/IMO</u> | Not Regulated |
| <u>TDG</u>      | Not Regulated |
| <u>ADG</u>      | Not Regulated |

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

## SECTION 15: REGULATORY INFORMATION

### National Regulations.

Contains no AICS (Australian Inventory of Chemical Substances) restrictions

## SECTION 16: OTHER INFORMATION

**Creation Date: November 2023**

**Version: 1.00**

**Due for revision: September 2028**

### Key to abbreviations:

|                  |   |
|------------------|---|
| 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)   |
| LC <sub>0</sub>  | Lethal Concentration Low – lowest concentration causing death   |
| LD <sub>0</sub>  | Lethal Dose Low – lowest dose causing death   |
| LC <sub>50</sub> | Lethal Concentration required to kill 50% of test population  |
| EC <sub>50</sub> | Half maximal effective concentration  |

A BOSS FyreBox™ contains internal sealed sachets that have internal graphite to provide its high performance intumescence, the internal contents of these sachets are therefore highly conductive of electricity. Extreme caution is needed to ensure the internal contents of the sachets do not come into contact with live current or electrically charged equipment as electric shock may occur. When using the BOSS FyreBox® to firestop around power cables, check to make sure that the cables' insulation is free from defects.

For more information on this please contact BOSS Passive Fire Technical Services on 1300 502 677.

### 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 on +61 2 9531 8591.

### FURTHER INFORMATION

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

**AU:**

1300 50 2677  
Bossfire.com.au

**NZ:**

0800 50 2677  
Bossfire.co.nz

**Admin:**

+612 9531 8591  
info@bossfire.com.au  
Unit 1, 16 Atkinson Rd Taren Point NSW 2229 AUSTRALIA