

SAFETY DATASHEET

BOSS FyreBox

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1. SUBSTANCE IDENTIFICATION


Product Name	BOSS FyreBox
Product Code	BFB-150 / BFB-300 / BFB-450 / BFB-550 / BFB-600
Use/Description	Intumescent composite based on graphite intumescent material inside a steel enclosure, designed to provide high volume expansion and pressure seal

2. COMPOSITION

Contains	The Intumescent contained within the internally sealed sachets contains: Thermoplastic element composition containing intercalated graphite in a synthetic compound with the addition of fillers and process oils, housed in steel
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CARBON CRYSTALLINE GRAPHITE, INTERCALATED – REACH registered number(s): 01-2119514421				
EINECS	CAS	PBT/WEL	CLP Classification	Percent
.	7782-42-5	Substance with a community workplace exposure limit	.	10-30%
ATH – REACH registered number(s): 01-2119529246-39-xxxx				
244-492-7	21645-51-2	Substance with a community workplace exposure limit	.	10-30%
CELLULOSE FIBRE				
.	.	Substance with a community workplace exposure limit	.	1-10%
ALKYLPHENOL POLYPROPYLENEGLYCOLETHER				
.	9024-15-7	.	Acute Tox 4: H302; Eye Dam. 1: H318; Aquatic Chronic 2: H411	1-10%

3. HAZARD IDENTIFICATION

Main Hazards	The Intumescent contained within the internally sealed sachets contains: Causes serious eye irritation. Harmful to aquatic life with long lasting Effects. H319: Causes serious eye irritation H412: Harmful to aquatic life with long lasting effects
Hazard Pictograms	GHS07: Exclamation mark 
Signal Words	Warning
Classification under CLP	Aquatic Chronic 3: H412; Eye Irrit. 2: H319
Label Elements	This product has no label elements
Precautionary statements	P264: Wash hands thoroughly after handling P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
PBT	This product is not identified as a PBT /vPvB substance

4. FIRST AID MEASURES (SYMPTOMS)

Skin Contact	May be mild irritation at the site of contact
Eye Contact	May be mild irritation and redness
Ingestion	May be mild irritation to throat
Inhalation	N/A – solid state

5. FIRST AID MEASURES (ACTION)

Skin Contact	Wash with plenty of soap and water. If irritation persists seek medical advice.
Eye Contact	Bathe with water for 15 minutes, seek medical advice
Ingestion	Wash out mouth with water. Seek medical advice.
Inhalation	N/A

6. FIRE FIGHTING MEASURES

Suitable Extinguishers	All standard fire-fighting media. Carbon dioxide; powder; water spray/mist. Fight larger fires with water spray or alcohol resistant foam.
Special Hazards	Formation of toxic gases (carbon oxides, nitrogen oxides) is possible during heating or in case of fire.
Protective Equipment	Breathing apparatus is required

7. ACCIDENTAL RELEASE MEASURES

Personal Precautions	In the event of fire ensure sufficient ventilation
Environmental Precautions	Do not discharge into drains or rivers
Clean-up Procedures	No special measures necessary

8. HANDLING & STORAGE

Handling Requirements	No special requirements, keep away from food and drink
Storage Conditions	Store in cool dry place below 35°C. Keep in a well-ventilated area, off the ground.
Suitable Packaging	No special requirements

9. EXPOSURE CONTROL & PERSONAL PROTECTION

Hazard ingredients				
CARBON CRYSTALLINE GRAPHITE, INTERCALATED				
WORKPLACE EXPOSURE LIMITS:			Respirable dust	
State	8 Hour TWA	15 min. STEL	8 Hour TWA	15min. STEL
EU	-	-	4mg /m ³	-
ATH				
UK	-	-	4 mg/m ³	-
CELLULOSE FIBRE				
UK	-	-	4 mg	-

Exposure Limit Values	Ensure there is sufficient ventilation of the area
Respiratory Protection	Respiratory protection not required
Hand Protection	Protective gloves
Eye Protection	Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin Protection	Protective clothing

10. PHYSICAL & CHEMICAL PROPERTIES

State	Steel cylindrical or square tube lined with black intumescent
Colour	Steel casing is green
Odour	Odourless
Solubility in Water	Insoluble
PH	Not applicable
Melting Point	Increase in volume by a factor of >25 at 180 degrees C

Internal Contents contained within the sachets inside the steel box:

State	Paste
Colour	Black
Odour	Barely perceptible odour
Evaporation Rate	Slow
Oxidising	Non-oxidising (by EC criteria)
Solubility in Water	Miscible
Decomposition Temp	Ca. 180°C
Density	Ca. 1.3-1.4g/cm ³
Boiling Point / Range °C	Not determined
Vapour Pressure	As water
PH	5-9

11. STABILITY & REACTIVITY

Stability	Stable under normal conditions
Conditions to Avoid	Thermal decomposition above 300°C
Haz. Decomp. Products	Thermal decomposition, fumes contain hydrogen chloride. However the activated graphite is effective at removing aromatic particles from smoke emissions.

12. TOXICOLOGICAL INFORMATION

Hazardous Ingredients:				
ATH				
Inhalation	RAT	LC50	7.6	Mg/l
Oral	RAT	-	2000	Mg/kg
Relevant hazards for product:				
Hazard	Route	Basis		
Serious eye damage / irritation	OPT	Hazardous: Calculated		

Skin Contact	Irritation and redness may occur at point of contact.
Eye Contact	Pain redness / severe pain may occur. Eyes may water profusely. Vision may become blurred. May cause permanent damage.
Ingestion	May be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation	Not applicable
Delayed / immediate effects	Delayed effects can be expected after long term exposure

13. ECOLOGICAL INFORMATION

Toxicity:

Hazardous Ingredients:			
ATH			
Atlantic Salmon	96H EC50	100	Mg/l
Daphnia magna	48H EC50	100	Mg/l
Green Alga (selenastrum capricornutum)	72H EC50	100	Mg/l
Salmo Trutta	LC50	100	Mg/l

Persistence and Degradability	Not established
Bioaccumulative Potential	No bioaccumulative potential
Mobility	Readily absorbed into soil
PBT Identification	This product is not identified as a PBT/vPvB substance
Other Adverse Effects	Negligible ecotoxicity

14. DISPOSAL CONSIDERATIONS

Disposal Operations	Dispose of in accordance with local authority requirements Do not discharge into drains or water ways
Disposal of Packaging	Dispose of as normal industrial waste according to local or national legislation

15. TRANSPORT HAZARDS

Transport Hazards	No regulations apply for the transport of this material Not classified as hazardous road, rail, sea or air transport
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16. ADDITIONAL INFORMATION

Disclaimer	The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage transportation, disposal and release and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.
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17. SAFETY CAUTION

As BOSS FyreBox contains internal sealed sachets that have internal graphite to provide its high performance intumescence, it is 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 Fire & Safety Technical Services on 1300 502 677.

LIMITATION

BOSS Fire & Safety Pty Ltd has provided the above information in good faith and to the best of its knowledge. Some of this information is based upon the SDS and technical information provided by other parties or manufacturers. This information was correct at the time of publication, should any data come to BOSS Fire & Safety's attention relating to the safety or handling of the product described, BOSS Fire & Safety will amend this report. It is the users responsibility to ensure they have the current publication.

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FURTHER INFORMATION

To learn more about BOSS FyreBox see the Technical Data Sheet available at bossfire.com

Further information can be provided by contacting BOSS Fire & Safety on:

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