

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: FireMastic-HPE™
PRODUCT FORM: Mastic Sealant
PRESCRIBED USE: High Pressure Exerting Intumescent Sealant
COMPANY/SUPPLIER: Boss Passive Fire Pty Ltd
ADDRESS: Unit 1, 16 Atkinson Road, Taren Point, NSW. 2229
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This SDS is provided by SHARP and HOWELLS Pty Ltd (Consulting Chemists).

WEBSITE: www.sharpandhowells.com.au

SECTION 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:

- 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.

2.3 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 (CO₂). 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/m³)</u>	<u>STEL(mg/m³)</u>
Cellulose	OIELV (EU)	6 mg/m ³	
Aluminium Hydroxide	WEL (UK)	10mg/m ³	4 mg/m ³
Graphite	SWA (AUS)	3 mg / m ³	
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

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

SECTION 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.

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 ³ (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

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

SECTION 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

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Recommendations:	Dispose of in compliance with federal, provincial, state, territory and local requirements.
Special precautions:	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

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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 _{Lo}	Lethal Concentration Low – lowest concentration causing death
LD _{Lo}	Lethal Dose Low – lowest dose causing death
LC ₅₀	Lethal Concentration required to kill 50% of test population
EC ₅₀	Half maximal effective concentration

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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.