

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: FireMastic-300™

PRODUCT FORM: Mastic Sealant

PRESCRIBED USE: Flexible Fire & Acoustic rated Acrylic Sealant. For sealing joints, linear gaps and service penetrations.

COMPANY/SUPPLIER: Boss Passive Fire Pty Ltd

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This SDS is provided by SHARP and HOWELLS Pty Ltd (Consulting Chemists).

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Mixture

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

| | |
|--|------|
| Aspiration Hazard, Category 2. | H305 |
| Skin Corrosion/irritation, Category 2 | H315 |
| Sensitization, Skin Category 1, 1A, 1B | H317 |
| Serious eye damage/eye irritation, Category 2A | H319 |
| Specific Target Organ toxicity, single exposure, Respiratory Tract Irritation, Category 3, | H335 |
| Hazardous to aquatic environments, Long Term Hazard, Category 3 | H412 |

2.2 Label Elements

GHS-US labelling

Hazard Pictograms:



Signal Word:

Warning

Hazard Statements:

H305 – May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 – May cause an allergic skin reaction.
H319- Causes serious eye irritation
H335 – May cause respiratory irritation
H412 – Harmful to aquatic life with long lasting effects

Precautionary Statements:

P203- Obtain, read and follow all safety instructions before use.
P261 – Avoid breathing fumes/gas/mist/vapours/spray/dust
P264 - Wash hands thoroughly after handling
P265 – Do not touch eyes
P271 – Use outdoors or in well ventilated area.
P273- Avoid release to the environment
P280- Wear eye protection, protective clothing, protective gloves

Response Statements:

P301 + P316 - **IF SWALLOWED:** Get emergency medical help immediately.
P331 – Do NOT induce vomiting
P302 + P352- **IF ON SKIN,** wash with plenty of water.
P332 + P317 – If skin irritation occurs get medical help.
P362 + P364- Remove contaminated clothing and wash before reuse.
P305 + P354 +P338 – **IF IN EYES:** Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P317 – Get emergency medical help.
P304 + P340 - **IF VAPOURS INHALED** Remove person to fresh air and keep comfortable for breathing.
P319 – Get medical help if you feel unwell.

Storage Requirements:

P403 + P233 – Store in well ventilated space. Keep container tightly closed

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> |
|---|----------------|-------------------|
| Calcium Carbonate | 1317-65-3 | 20 - 60 % |
| Acrylic Polymers | - | 10 - 40% |
| Aluminium Hydroxide | 21645-51-2 | 1 - 10 % |
| Hydrocarbons (Petroleum) | - | < 5 % |
| Sodium Hydroxide | 1310-73-2 | < 1 % |
| Isothiazolinones-mixed | | |
| 5-Chloro-2-methyl-4-Isothiazolin-3-one | 26172-55-4 | < 1 % |
| 2-methyl-2H -isothiazol-3-one | 220-239-6 | |
| Other ingredients (deemed non-hazardous.) | - | Balance |

SECTION 4: FIRST AID MEASURES

Inhalation:

Vapours may cause 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 mouth or throat. Wash mouth out with water.
Seek immediate medical assistance if you feel unwell.
May be fatal if ingested material enters airways. Do not induce vomiting. Get emergency medical help immediately

Skin Contact:

May cause 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 causes 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.

In case of poisoning phone the NZ Poison Centre 0800POISON (0800 764 766)

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Extinguishing media suitable for surrounding fire should be used.

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.

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. 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.

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> |
|------------------------|------------------------------|-------------------------------|-------------------------------|
| Calcium Carbonate | SafeWork Australia | 10 mg/m ³ | |
| Aluminium Hydroxide | WEL (UK) | 10mg/m ³ | 4 mg/m ³ |
| Sodium Hydroxide | NIOSH (USA) | 2mg/m ³ | |
| Other Ingredients | No exposure Limits available | | |

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 |
| Odour: | Slight, Barely Discernible. |
| Density: | 1.6 g/cm ³ |
| Viscosity: | Highly Viscous. |
| Boiling Point & Boiling Range: | Data unavailable |
| Flash Point: | > 200 °C |
| Evaporation Rate: | Slow |
| 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) | 8.5 |
| Partition Coefficient: | Data unavailable |
| Auto-Ignition Temperature: | 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 | LD50 Inhalation -Rat |
|---------------------|----------------------------|-------------|----------------------|
| Aluminium Hydroxide | LD50 >2000mg/kg bodyweight | Not Listed | LD50= >2.3 mg/l air |

| Component | LD50 Oral Rat | LD50 Dermal | LC50 Inhalation -Rat |
|-------------------|---------------------------|--|---|
| Calcium Carbonate | LD50 = 6450 mg/kg (Rat) | > 2000 mg/kg (Rat) (OECD Guideline 402) | > 3 mg/L 4h (Rat) (OECD Guideline 403) |

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation - Rat |
|--------------------------|------------------------------|-----------------------------|------------------------------|
| 2-Methyl-3-isothiazolone | LD50 232 - 249 mg/kg (Rat) | LD50 = 200 mg/kg (Rabbit) | LD50 = 0.11 mg/L (Rat) 4 h |

| Component | LD50 Oral | LD50 Dermal | LD50 Inhalation - Rat |
|--------------------------------|---|--|---|
| Hydrocarbons CAS 64742-82-1 | LD50 => 15000 mg/kg (Rat) (OECD Guideline 401) | LD50 = 3400 mg/kg(Rat) (OECD Guideline 402) | 13100 mg/L 4h (Rat) (OECD Guideline 403) |

Toxicologically Synergistic : No information available

Irritation: No information available

Sensitization: No information available

Carcinogenicity: No information available

Mutagenic Effects: No information available

Reproductive Effects: No information available

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: 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.

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: | Biodegradable, Not persistent in the environment. |
| Bioaccumulation/Accumulation: | No known Bioaccumulation Potential |
| Mobility: | Water miscible so likely to be mobile. |
| 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

Creation Date: June 2022
Version: 1.00
Due for revision: June 2027

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 |
| NTP | National Toxicity Program (USA) |
| OSHA | Occupational Safety & Health Administration (USA) |
| 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.



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