

FireMastic-300™

Safety Datasheet

FIREMASTIC-300™

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Name	BOSS Passive Fire
Head Office	43 Wurrook Circuit, Caringbah NSW 2229, AUSTRALIA
Phone	1300 502 677
International	+61 2 9524 4040
Email	info@bossfire.com
Web	www.bossfire.com

1. SUBSTANCE IDENTIFICATION

Product Name	FireMastic-300™
Product Form	Mastic Sealant
Prescribed Use	Flexible Fire & Acoustic rated Acrylic Sealant. For sealing joints, linear gaps and service penetrations.

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	 GHS07  GHS08
Signal Word	Warning
Hazard Statements	<p>H305 – May be fatal if swallowed and enters airways.</p> <p>H315 – Causes skin irritation.</p> <p>H317 – May cause an allergic skin reaction.</p> <p>H319 – Causes serious eye irritation.</p> <p>H335 – May cause respiratory irritation.</p> <p>H412 – Harmful to aquatic life with long lasting effects.</p>
Precautionary Statements	<p>P203 – Obtain, read and follow all safety instructions before use.</p> <p>P261 – Avoid breathing fumes/gas/mist/vapours/spray/dust.</p> <p>P264 – Wash hands thoroughly after handling.</p> <p>P265 – Do not touch eyes.</p> <p>P271 – Use outdoors or in well ventilated area.</p> <p>P273 – Avoid release to the environment.</p> <p>P280 – Wear eye protection, protective clothing, protective gloves.</p>

Response Statements	<p>P301 + P316 - IF SWALLOWED: Get emergency medical help immediately.</p> <p>P331 - Do NOT induce vomiting.</p> <p>P302 + P352 - IF ON SKIN, wash with plenty of water.</p> <p>P332 + P317 - If skin irritation occurs get medical help.</p> <p>P362 + P364 - Remove contaminated clothing and wash before reuse.</p> <p>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.</p> <p>P317 - Get emergency medical help.</p> <p>P304 + P340 - IF VAPOURS INHALED Remove person to fresh air and keep comfortable for breathing.</p> <p>P319 - Get medical help if you feel unwell.</p>
Storage Requirements	<p>P403 + P233 - Store in well ventilated space. Keep container tightly closed.</p>
Disposal Requirements	<p>P501: Dispose of contents/container in accordance with the relevant regulations.</p>

2. 3. Other Hazards

No other information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion
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

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.

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.

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. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Standards

Chemical Entity	Reference	TWA (mg/m ³)	STEL(mg/m ³)
Calcium Carbonate	SafeWork Australia	10mg/m ³	
Aluminium Hydroxide	WEL (UK)	10mg/m ³	4 mg/m ³
Sodium Hydroxide	NIOSH (USA)	10mg/m ³	
Other Ingredients	No exposure Limits available.		

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste
Appearance	Grey/Black.
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.
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
Calcium Carbonate	LD50 = 6450 mg/kg (Rat)	> 2000 mg/kg (Rat) (OECD Guideline 402)	> 3 mg/L 4h (Rat) (OECD Guideline 403)
2-Methyl-3-isothiazolone	LD50 232 - 249 mg/kg (Rat)	LD50 = 200 mg/kg (Rabbit)	LD50 = 0.11 mg/L (Rat) 4 h
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.

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.

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

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

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

15. REGULATORY INFORMATION

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

Creation Date: June 2022 | **Version:** 1.00 | **Due for revision:** September 2027

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).
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.

This SDS has been prepared and issued by:
Sharp and Howells Pty Ltd Chartered Chemists
41 Greenaway Street, Bulleen, Victoria, 3105, Australia.
Phone: (03) 9850 9722
Fax: (03) 9850 9733

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.

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 FireMastic-300™, other BOSS Fire® products or any other BOSS Fire® related information please contact us on:

AU: 1300 502 677

NZ: 0800 502 677

www.bossfire.com

ADMIN

+612 9524 4040

info@bossfire.com

HEAD OFFICE

43 Wurrook Circuit, Caringbah NSW 2229,
AUSTRALIA