SAFETY DATA SHEET

FIREBAN HYBRID LIMESTONE
Revision Number 1

Revision Date: 30-Aug-2020
Supersedes Date: 30-Aug-2020

Section 1: Identification: Product identifier and chemical identity

Product identifier

Product Name FIREBAN HYBRID LIMESTONE

Product Code(s)
30615091
30615091; 30615092

Other means of identification

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Sealant

Uses advised against No information available

Details of manufacturer or importer

Supplier
Bostik Australia Pty Ltd
51-71 High Street,
Thomastown Victoria
Australia
Tel: 613 9279-9333
Fax: 613 9279-9342

ABN: 79 003 893 838

E-mail address au-bostik-sds@bostik.com

Emergency telephone number

Emergency telephone number 24-hr Emergency: 1800 033 111

Section 2: Hazard(s) identification

GHS Classification

Based on available information, this material is classified as hazardous according to criteria of Safe Work Australia

Skin sensitization	Category 1A - (H317)

Label elements

Exclamation mark

Signal word
Warning

Hazard statements
H317 - May cause an allergic skin reaction

Precautionary Statements - Prevention
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
Precautionary Statements - Disposal
P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards which do not result in classification
Harmful to aquatic life with long lasting effects
Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)
No poisons schedule number allocated

Poison Schedule Number Not applicable

Section 3: Composition and information on ingredients, in accordance with Schedule 8

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%
Trimethoxyvinylsilane	2768-02-7	1-5%
Dioctyltinbis(acetylacetonate)	54068-28-9	< 1%
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	< 1%
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5	< 1%
1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]-	3069-29-2	< 1%
Non-hazardous ingredients	Proprietary	Balance

Section 4: First aid measures

Emergency telephone number Poisons Information Center, Australia: 13 11 26
Poisons Information Center, New Zealand: 0800 764 766

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

Ingestion Call a physician immediately. If swallowed, rinse mouth with water (only if the person is

conscious). Small amounts of toxic methanol are released by hydrolysis.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Section 5: Firefighting measures

Suitable extinguishing media

Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable extinguishing media Full water jet.

Specific hazards arising from the chemical

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous combustion products Carbon dioxide (CO2).

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation,

wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep at temperatures between 5 and 35 °C. Keep away from food, drink and animal feeding stuffs.

Incompatible materials None known based on information supplied.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing.

Hand protection Wear suitable gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Solid
Appearance	Paste
Color	Gray Green
Odor	Characteristic
Odor threshold	No information available

Property	**Values**	**Remarks • Method**
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	> 60 °C	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	

Vapor pressure	No data available	
Vapor density	No data available	
Relative density	1.48	
Water solubility	Product cures with moisture	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature		
Kinematic viscosity	21 mm²/s	@ 40°C
Dynamic viscosity	No data available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other information

Solid content (%)	No information available
VOC Content (%)	No information available
Density	No information available

Section 10: Stability and reactivity

Reactivity

Reactivity Product cures with moisture.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Protect from moisture.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Section 11: Toxicological information

Acute Toxicity

Information on likely routes of exposure

Product Information .

Inhalation Not an expected route of exposure.

Eye contact Based on available data, the classification criteria are not met.

Skin contact May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).

Ingestion Based on available data, the classification criteria are not met. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms Itching. Rashes. Hives.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (inhalation-vapor) 565.60 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg (Rattus) OECD 401	= 3360 µL/kg (Oryctolagus cuniculus)	LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403
Dioctyltinbis(acetylacetonate)	LD50 =2500 mg/kg (Rattus)	LD50 >2000 mg/kg (Rattus)	-
N-(3-(trimethoxysilyl)propyl)ethylenediamine	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44 mg/L air
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 = 3230 mg/Kg (Rat)	LD50 >3170 mg/Kg (Rat)	-
1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]-	=200 - 2000 mg/Kg (Rattus) (OECD 401)	>5000 mg/Kg (Oryctolagus cuniculus) (OECD 402)	-

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Component Information					
1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- (3069-29-2)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			irritant

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Component Information					
1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- (3069-29-2)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit				Eye Damage

Respiratory or skin sensitization May cause sensitization by skin contact.

Component Information			
Dioctyltinbis(acetylacetonate) (54068-28-9)			
Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay		Dermal	> 5 % sensitizing

1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- (3069-29-2)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig		Sensitizing

Germ cell mutagenicity No information available.

Carcinogenicity If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS.

Reproductive toxicity No information available.

STOT - single exposure None under normal use conditions.

STOT - repeated exposure None under normal use conditions.

Aspiration hazard Not applicable.

Section 12: Ecological information

Ecotoxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trimethoxyvinylsilane 2768-02-7	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	LC50 (96h) = 191 mg/l (Oncorhynchus mykiss)	-	EC50(48hr) 168.7mg/l (Daphnia magna)
Dioctyltinbis(acetylacetonate) 54068-28-9	-	LC50 (96h) =86 mg/L (Static)	-	EC50 (48h) =58.6 mg/L (Daphnia magna)
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	-	LC50 (96H) =597 mg/L (Danio rerio)Semi-static	-	EC50 (48h) =81mg/L Daphnia magna Static
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 1065336-91-5	-	LC50 (96h) =0.9 mg/L	-	-

Persistence and degradability

Persistence and degradability No information available.

Component Information			
Trimethoxyvinylsilane (2768-02-7)			
Method	**Exposure time**	**Value**	**Results**
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	BOD	51 % Not readily biodegradable

Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Trimethoxyvinylsilane 2768-02-7	1.1
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	-0.3

Mobility

Mobility in soil No information available.

Mobility No information available.

Other Adverse Effects

Other adverse effects No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products Uncured product should be disposed of as hazardous waste. Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging Handle contaminated packages in the same way as the product itself.

Section 14: Transport information

ADG Not regulated

IATA Not regulated

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Australia
See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)
No poisons schedule number allocated
Poison Schedule Number Not applicable

Major hazard (accident/incident planning) regulation
Verify that license requirements are met

Hazardous chemical	Threshold quantity (T)
Liquids with flash points <61°C kept above their boiling points	200

at ambient conditions

National pollutant inventory
Subject to reporting requirement

International Inventories

AICS	Not Listed	*Note : Product is covered by a volume-limited NICNAS exemption.*
NZIoC	Not Listed	
ENCS	Not Listed	
IECSC	Not Listed	
KECL	Not Listed	
PICCS	Not Listed	

Legend:
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Section 16: Any other relevant information

Prepared By Product Safety & Regulatory Affairs

Revision Date: 30-Aug-2020

Revision note
The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

Section 11: TOXICOLOGICAL INFORMATION
LD50 (lethal dose)
Section 12: Ecological information
EC50 (effective concentration)

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 to be 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

End of Safety Data Sheet