



SAFETY DATA SHEET
BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 1
Compilation date: 03/05/2018
Revision date: 25/02/2020
Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: BS-8221 ALL PURPOSE HYBRID SEALANT

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Bossil Technology Sdn. Bhd.
Lot 165, Jalan Industri 1/2,
Rawang Integrated Industrial Park,
Rawang,
Selangor,
48000
Malaysia.

Tel: +6016-2119190

Email: sales@bossil.com

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319; Aquatic Chronic 3: H412; -: EUH208

Most important adverse effects: Contains n-(3-(trimethoxysilyl)propyl)ethylenediamine, dibutylbis(pentane-2,4-dionato,o,o')tin. May produce an allergic reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: EUH208: Contains n-(3-(trimethoxysilyl)propyl)ethylenediamine, dibutylbis(pentane-2,4-dionato,o,o')tin. May produce an allergic reaction.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

Hazard pictograms: GHS07: Exclamation mark



SAFETY DATA SHEET

BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 2

Signal words: Warning

Precautionary statements: P264: Wash hands, forearms and face 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.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

LIMESTONE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
215-279-6	1317-65-3	Substance with a Community workplace exposure limit.	-	30-50%

KAOLIN

-	1332-58-7	Substance with a Community workplace exposure limit.	-	10-30%
---	-----------	--	---	--------

DIISONONYLPHTHALATE - REACH registered number(s): 01-2119432682-41-0000

271-090-9	68515-48-0	Substance with a Community workplace exposure limit.	-	10-30%
-----------	------------	--	---	--------

TITANIUM DIOXIDE

236-675-5	13463-67-7	Substance with a Community workplace exposure limit.	-	1-10%
-----------	------------	--	---	-------

VINYLTRIMETHOXYSILANE

220-449-8	2768-02-7	-	Flam. Liq. 3: H226; Acute Tox. 4: H332; STOT RE 2: H373	<1%
-----------	-----------	---	---	-----

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE

217-164-6	1760-24-3	-	Eye Dam. 1: H318; Skin Sens. 1B: H317	<1%
-----------	-----------	---	---------------------------------------	-----

[cont...]

SAFETY DATA SHEET

BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 3

DIBUTYLBIS(PENTANE-2,4-DIONATO,O,O')TIN

245-152-0	22673-19-4	-	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Muta. 2: H341; Repr. 1A: H360; STOT SE 1: H370; STOT RE 1: H372; Aquatic Chronic 1: H410	<1%
-----------	------------	---	---	-----

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the

[cont...]

SAFETY DATA SHEET

BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 4

contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.
Do not handle in a confined space. Avoid the formation or spread of dust in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

LIMESTONE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10 mg/m ³	-	4 mg/m ³	-

KAOLIN

UK	-	-	2 mg/m ³	-
----	---	---	---------------------	---

DIISONONYLPHTHALATE

UK	5 mg/m ³	-	-	-
----	---------------------	---	---	---

TITANIUM DIOXIDE

UK	10 mg/m ³	-	4 mg/m ³	-
----	----------------------	---	---------------------	---

DNEL/PNEC Values

DNEL / PNEC No data available.

[cont...]

SAFETY DATA SHEET

BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 5

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: White

Odour: Odourless

Evaporation rate: Not applicable.

Oxidising: Not applicable.

Boiling point/range°C: Not applicable.

Melting point/range°C: Not applicable.

Flash point°C: No data available.

Relative density: 1.48 g/ml

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

[cont...]

SAFETY DATA SHEET

BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 6

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

LIMESTONE

ORAL	RAT	LD50	2000	mg/kg
------	-----	------	------	-------

KAOLIN

ORAL	RAT	LD50	5000	mg/kg
------	-----	------	------	-------

DIISONONYLPHTHALATE

DERMAL	RBT	LD50	3160	mg/kg
DUST/MIST	RAT	4H LC50	4.4	mg/l
ORAL	RAT	LD50	10000	mg/kg

VINYLTRIMETHOXYSILANE

DERMAL	RBT	LD50	3259	mg/kg
ORAL	RAT	LD50	7120	mg/kg
VAPOURS	RAT	4H LC50	16.8	mg/l

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE

DERMAL	RBT	LD50	2000	mg/kg
DUST/MIST	RAT	4H LC50	1.49	mg/l
ORAL	RAT	LD50	2295	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

Excluded hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	No hazard: calculated
Acute toxicity (ac. tox. 3)	-	No hazard: calculated
Acute toxicity (ac. tox. 2)	-	No hazard: calculated
Acute toxicity (ac. tox. 1)	-	No hazard: calculated
Skin corrosion/irritation	-	No hazard: calculated
Respiratory/skin sensitisation	-	No hazard: calculated

[cont...]

SAFETY DATA SHEET

BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 7

Germ cell mutagenicity	-	No hazard: calculated
Carcinogenicity	-	No hazard: calculated
Reproductive toxicity	-	No hazard: calculated
STOT-single exposure	-	No hazard: calculated
STOT-repeated exposure	-	No hazard: calculated
Aspiration hazard	-	No hazard: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

LIMESTONE

Daphnia magna	48H EC50	100	mg/l
FISH	96H LC50	100	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	14	mg/l

DIISONONYLPHTHALATE

Daphnia magna	48H EC50	74	mg/l
Scenedesmus Subspicatus	72H ErC50	88	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	102	mg/l

VINYLTRIMETHOXYSILANE

Daphnia magna	48H EC50	168.7	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	89	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	191	mg/l

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE

Daphnia magna	48H EC50	81	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	8.8	mg/l

[cont...]

SAFETY DATA SHEET

BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 8

ZEBRAFISH (Brachydanio rerio)	96H LC50	597	mg/l
-------------------------------	----------	-----	------

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.
H226: Flammable liquid and vapour.
H302: Harmful if swallowed.

[cont...]

SAFETY DATA SHEET

BS-8221 ALL PURPOSE HYBRID SEALANT

Page: 9

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H341: Suspected of causing genetic defects.

H360: May damage fertility or the unborn child.

H370: Causes damage to organs.

H372: Causes damage to organs through prolonged or repeated exposure.

H373: May cause damage to organs ([bladder]) through prolonged or repeated exposure ([oral]).

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.