

SAFETY DATA SHEET

Flexproof X[®]1 Waterproof Sealant And Sealing System

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifier

Product name : Flexproof X[®]1

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

Relevant identified uses : Adhesives, sealants
Uses advised against : Other

1.3. Details of the supplier of the safety data sheet

Name **CJSA**
Address Unit 2, 18 Farrow Circuit Seaford Rise,
South Australia 5169,
Australia.

*The details and information stated within this SDS have been provided by the manufacturer.
Manufacturer's Reference Number: 01.08.2018 - Version 1.0
Refer to www.cjsa.net.au to obtain the most recent SDS.*

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product; Flexproof X[®]1 in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

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SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008:
- ; EUH208

2.2. Label elements

Labelling according to Regulation (EC) No, 1272/2008 (CLP)

Hazard pictograms : -
Signal word : -
Hazard statements : EU_208.2 Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate.
May produce an allergic reaction.
Precautionary statements : -

2.3. Other hazards

See attached safety data sheets and/or usage instructions.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Flexproof X[®]1 is a mixture.

Composition/information on ingredients

Substance	EC-no.	CAS-No.	INDEX no.	REACH-no.	Concentration	Classification: EC1272/2008 (CLP)
Trimethoxyvinylsilane	220-449-8	2768-02-7		01-211951 3215-52	1 - 5 % (w/w)	Flam. Liq. 3; H226 Acute Tox. 4; H332

Substance with a common (EC) occupational exposure limit value

Substance	EC-no.	CAS-No.	INDEX no.	REACH-no.	Concentration	Classification: EC1272/2008 (CLP)
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(Full text of R-, H- and EUH-phrases: see section 16.)

Additional information

Contains tin organic constituents.



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SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General information	:	In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
Following inhalation	:	Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.
Following skin contact	:	After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.
After eye contact	:	In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After ingestion	:	Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. No administration in cases of unconsciousness or cramps. Immediately get medical attention.
Self-protection of the first aider	:	No special measures are necessary.

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

Symptoms	:	No symptoms known up to now.
Nature of Hazard:	:	No risks worthy of mention.

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

Notes for the doctor	:	Let water be swallowed in little sips (dilution effect). Do not induce vomiting.
Special treatment	:	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	:	Water fog. Carbon dioxide (CO ₂). Foam. Dry extinguishing powder.
Unsuitable extinguishing media	:	High power water jet.

5.2. Special hazards arising from the substance or mixture

Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

General information

Extinguishing materials should be selected according to the surrounding area.

Special protective equipment for firefighters:

In case of fire : Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protection equipment and emergency procedures

Wear personal protection equipment. Guide people to safety.

6.2. Environmental precautions

No special environmental protection measures are necessary.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal. Avoid generation of dust. Clear contaminated area thoroughly. Wash with generous amount of water.

6.4. Reference to other sections

Safe handling	:	see section 7
Personal protection equipment	:	see section 8
Disposa	:	see section 13

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advices on safe handling	:	Avoid contact with skin and eyes.
Technical measures	:	No special technical protective measures are necessary.
Precautions against fire and explosion	:	Usual measures for fire prevention.
Additional information	:	None

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	No special technical protective measures are necessary.
Packaging materials	:	Keep/Store only in original container.
Requirements for storage rooms and vessels:		Keep the packing dry and well sealed to prevent contamination and absorption of dampness.
Hints on joint storage	:	Keep away from food, drink and animal feedingstuffs.
Storage class	:	10 Combustible liquids unless LGK 3A or 3B.
Further information on storage conditions	:	None

7.3. Specific end use(s)

Observe instructions for use.



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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit value

Substance	CAS-No.	Source	Occupational exposure limit value	Limitation of exposure peaks	Remark

Substance with a common (EC) occupational exposure limit value

Substance	CAS-No.	Source	Occupational exposure limit value	Limitation of exposure peaks	Remark

DNEL-/PNEC-values

DNEL value

Substance	CAS-No.	DNEL/DMEL	Industry	Professional	Consumer

PNEC Value

Substance	CAS-No.	DNEL/DMEL	Industry	Professional	Consumer

Risk management measures according to used control banding approach

None.

Additional information

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls

Occupational exposure controls

Provide for sufficient ventilation and punctiform suction at critical points. Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

General protection and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

Respiratory protection not required.

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN374

Eye/face protection

Tightly sealed safety glasses.

Body protection

Skin protection: not required.

Environmental exposure controls

Refer to chapter 7. No further action is necessary.

Consumer exposure controls

Refer to chapter 7. No further action is necessary.

Exposure Scenario

None



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Colour	:	No data available
Odour	:	Characteristic
Odour threshold	:	No data available

Safety relevant basis data

	<u>Parameter</u>	<u>Unit</u>	<u>Remark</u>
Density	: at °C: 20	1,486 g/cm ³	
Bulk density	:		Not applicable
pH	:		No data available
Melting point/freezing point	:	270 °C	
Initial boiling point and boiling range	:		No data available
Flash point	:	107 °C	
Flammability (solid, gas)	:		No data available
Explosivity	:		Not explosive
Lower explosion limit	:		Not applicable
Upper explosion limit	:		Not applicable
Ignition temperature	:		No data available
Decomposition temperature	:		No data available
Oxidizing potential	:		Not oxidizing
Vapour pressure	:		No data available
Vapour density	:		No data available
Evaporation rate	:		No data available
Water solubility	:		Not miscible
Fat solubility	:		No data available
Soluble in	:		Not applicable
Partition coefficient: noctanol/water	:		No data available
Viscosity	:		No data available
Solvent separation test	:		No data available
Solvent content	:	0.00 %	

9.2. Other information

None

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

None

10.2. Chemical stability

With proper storage and handling the product is stable.

10.3. Possibility of hazardous reactions

None



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SECTION 10. STABILITY AND REACTIVITY (continued)

10.4. Conditions to avoid

Moisture. Heat.

10.5. Incompatible materials

Oxidizing agents. Reducing agents. Acid. Alkalis (alkalis).

10.6. Hazardous decomposition products

Can be released in case of fire: Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide.

Additional information: None

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

There are no data available on the mixture itself.

Acute toxicity

Substance	CAS-No.	Toxicological information
Trimethoxyvinylsilane	2768-02-7	Acute toxicity, oral LD50: 7130 mg/kg (Rat.) Acute toxicity, oral LD50: 3260 mg/kg (Rabbit.)

Specific symptoms in laboratory animals

None

Irritation and etching

Irritant effect on the skin	:	Slightly irritant but not relevant for classification.
Irritant effect on the eye	:	Slightly irritant but not relevant for classification.
Irritant effect on the respiratory tract	:	Not an irritant.
Additional information	:	Not corrosive

Sensitization

No information available.

Repeated dose toxicity (subacute, subchronic, chronic)

No information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity	:	No indications of human carcinogenicity exist.
Germ cell mutagenicity	:	No indications of human germ cell mutagenicity exist.
Reproductive toxicity	:	No indications of human reproductive toxicity exist.

General remarks

None



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SECTION 11. TOXICOLOGICAL INFORMATION

Practical experience/human evidence

None

Other observations

None

Other information

Data arise from reference works and literature.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

Substance	CAS-No.	Ecotoxicity
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12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria).

12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

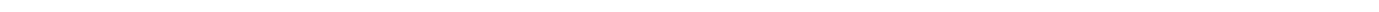
None

Further ecological information

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

Further details

Data arise from reference works and literature.





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SECTION 13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods

Appropriate disposal/Product

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

Appropriate disposal / Package

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

List of proposed waste codes/waste designations in accordance with EWC

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste code product : 20 01 27 - paint, inks, adhesives and resins containing dangerous substances

Waste code packaging : 15 01 10 - packaging containing residues of or contaminated by dangerous substances

Remark

Waste disposal according to official state regulations.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN No.: -

14.2. UN proper shipping name

Official directive for the transport

-

Proper Shipping name

-

14.3. Transport hazard class(es)

Hazard label(s): -

Classification code: -

14.4. Packing group

Packing group: -

14.5. Environmental hazards

Environmental hazards:

None

14.6. Special precautions for user

Land transport (ADR/RID)

Remark:

Not a hazardous material with respect to these transportation regulations.

Transport category: -

Tunnel restriction code: -

Special provisions: -

Limited quantity (LQ): -



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SECTION 14. TRANSPORT INFORMATION (continued)

14.6. Special precautions for user

Sea transport (IMDG)

Special Provisions: Materials to avoid: Oxidizing agents.
Remark: Not a hazardous material with respect to these transportation regulations.
EmS-No: - MFAG: - Marine pollutant: -
Special provisions: - Limited quantity (LQ): -

Air transport (ICAO-TI / IATA-DGR)

Remark: Not a hazardous material with respect to these transportation regulations.
Limited quantity (LQ): -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Remark: None

SECTION 15. REGULATORY INFORMATION

Labeling

Hazardous component(s) for labelling

Trimethoxyvinylsilane

Special labelling of particular preparations

Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate: May produce an allergic reaction. Safety data sheet available for professional user on request.

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Volatile organic compounds (VOC) in percentage by weight: 0,0

Regulation (EC) No 2037/2000 concerning materials, which cause damage to the ozone layer.

None

Regulation (EC) No. 648/2004 (Detergents regulation)

None

National regulations

Observe in addition any national regulations!

Restrictions of occupation

None

Storage class

10 Combustible liquids unless LGK 3A or 3B.

Water hazard class (WGK)

I weak water pollutant (WGK I)



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SECTION 15. REGULATORY INFORMATION

Other regulations, restrictions and prohibition regulations
none

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out: -
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16. OTHER INFORMATION

Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	226	Flammable liquid and vapour.
	332	Harmful if inhaled.

Training advice	None
Recommended restrictions of use	Refer to chapter 1.

Further remarks

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Documentation of changes	None
Key literature references and sources for data	Data arise from reference works and literature.
Abbreviations and acronyms	None

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product; Flexproof X[®]1 in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

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