

Fixtech Pty Ltd – PO Box 568, Southport, QLD
PH: +61 (0) 7 5530 1099
Email: info@fixtech.com.au

SAFETY DATA SHEET

Fix1DC Deck Caulk

1. Identification

- 1.1 Identification of the substance or preparation:**
Product Name: Fix1DC
- 1.2 Use of substance or preparation:**
Sealant
- 1.3 Company undertaking identification:**
Fixtech Pty Ltd – Fixtech Marine Solutions
Unit 1/20
Molendinar, Queensland 4214
Tel: +61 7 5530 1099
Email: info@fixtech.com.au
- 1.4 Emergency telephone:**
+61 7 5530 1099

2. Hazard(s) identification

Emergency Overview

Appearance

Colour: Coloured

Form: Paste

Physical state: Solid

Odour: Faint

Hazard statement(s):

- May cause an allergic skin reaction
- Suspected of damaging fertility

GHS classification of substance or mixture, and national or regional information

Health Hazards

Product: Fix1DC Neutral Cure Silicone Deck Caulk

Skin sensitizer Category 1

Toxic to reproduction Category 2

GHS Label Elements

Hazard Symbol(s)


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Signal word: Warning
 Hazard statement: - May cause an allergic skin reaction
 - Suspected of damaging fertility

Hazard category	Hazard statement	Signal word	Symbol Exclamation Mark
4	H302 Harmful if swallowed	Warning	
2	H315 Cause skin irritation		
2A	H319 Cause serious eye irritation		
4	H332 Harmful if inhaled		

Precautionary statement(s):

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace.

Response: If exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs:

Storage: Store locked up

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None

Supplemental Information: None

3. Composition/information on ingredients

Chemical nature: Mixture of polydimethylsiloxanes, fillers, and cross-linkers.

CAS#	Chemical Name	Content in percent (%)*
63148-60-7	hydroxy-terminated dimethyl siloxane	37~42
63148-62-9	silicone oil	<8

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471-34-1	Nano-Calcium carbonate	45~50
22984-54-9	Methyltris(methylethylketoxime)silane	<5
2224-33-1	Vinyltris(methylethylketoxime)silane	<3
919-30-2	3-aminopropyltriethoxysilane	<0.2
2530-83-8	3-glycidoxypropyltrimethoxysilane	<0.3
556-67-2	Octamethylcyclotetrasiloxane	<0.1
1333-86-4	Carbon nanotubes	<1.5

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First aid measures

After inhalation:

- Remove the victim to fresh air
- Respiratory difficulties: consult a doctor/ seek medical advice

Skin contact:

- Rinse with water
- Soap may be used
- Seek medical advice if irritation persists

Eye contact:

- Immediately flush with water for 15 minutes
- Seek medical advice if irritation persists

After ingestion:

- Rinse mouth with water. DO NOT induce vomiting
- Seek medical advice

Personal Protection for First Aid Responders: No data available

Most important symptoms/effects, acute and delayed:

Symptoms: No data available
Hazards: No data available

Notes to physician:

Treatment: No data available

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5. Firefighting measures

General Fire Hazards: Remove sources of combustibles. Extinguish the fire using firefighting media listed below. Cool surrounding tanks and buildings and so on by spraying water to prevent the fire spreading. Firefighting should be done from the windward side, with suitable respiratory protective device worn if necessary.

Means of extinguishing the fire:	Extinguish with foam, carbon dioxide or dry powder.
Unsuitable extinguishing media:	No data available
Specific hazards arising from the chemical:	No data available
Special firefighting procedures:	Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

Emergency procedures: Keep up wind. DO NOT allow runoff to enter sewer, waterway, or ground

Containment/clean up:
Put in an empty container for recovery after preventing spill by sand or sandbags, if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an inert material, if the amount of spill is small.

Notification procedures: Remove sources of ignition

7. Handling and storage

Precautions for safe handling: Wear appropriate personal protective equipment. Keep away from sources of ignition - No smoking. Avoid inhalation of vapours and spray mists. Use only with adequate ventilation.

**Conditions of storage:
including any incompatibilities** Store at room temperature in a low moisture, dark, cool place. Keep container closed.

8. Exposure controls/personal protection

Personal Protective Equipment:



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Control Parameters:

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of 2-butanone, oxime (CAS 96-29-7) are formed by hydrolysis and released upon curing.

Occupational exposure limits:

None of the components have assigned exposure limits

Biological Limit values:

None of the components have assigned exposure limits

Appropriate engineering controls:

Use only in well ventilated areas

Individual protection measures:

- Eye protection

Safety glasses with side shields

Skin protection:

- Hand protection

Rubber or plastic gloves

- Respiratory protection

Gas mask for organic gas if MEKO exposure limits are exceeded 3ppm 8-hr TWA, recommended workplace exposure guideline.

Other hygiene measures:

Chemical resistant clothing and safety shoes

Avoid contact with eyes, skin, and clothing. Wash hands after handling.

When using do not eat, drink, or smoke.

9. Physical and Chemical Properties

General information:

Physical State:	Solid
Physical Form:	Paste
Colour:	Coloured, see product information
Odour:	Faint
Odour threshold:	No data available
pH:	No data available
Freezing/Melting point:	Not applied
Boiling point:	Not applied
Flash Point:	81°C
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Density:	1.41 g/cm ³ (23°C)
Solubility in Water:	Insoluble

Partition coefficient (n-octanol/water) Log:

POW:	No data available
Auto ignition temperature:	450°C
Decomposition temperature:	No decomposition if stored and applied as directed
SADT:	No data available
Viscosity, Dynamic:	No data available
Viscosity, Kinematic:	No data available
Specific Gravity:	No data available

Note: the above information is not intended for use in preparing product specifications

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10. Stability and reactivity

Stability:

Chemical Stability: Stable
Hazardous Reactions: No data available

Reactivity:

Conditions to avoid: Keep away from heat, sparks, and open flame.

Materials to Avoid: Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapours to form as described in Section 8

Hazardous Decomposition:

Reacts with water/moisture liberating methylethylketoxime (MEKO) = 2 Butanone-oxime.
This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

Other Information: No data available

11. Toxicological information

General information: Experience has shown that the above-mentioned product can be used without any danger to health, as long as the usual conditions of industrial hygiene are observed.

Information on likely routes of exposure:

- **Inhalation:** No data available
- **Skin Contact:** No data available
- **Eye Contact:** No data available
- **Ingestion:** No data available

Symptoms related to the physical, chemical, and toxicological characteristics:

- **Inhalation** No data available
- **Skin contact:** No data available
- **Eye Contact:** No data available
- **Ingestion:** No data available

Information on toxicological effects

Acute toxicity

Oral

Product: No data available

Specified substance(s):

Aminoethyl aminopropyl trimethoxy silane LD 50 (Rat): 2995 mg/kg

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Octamethylcyclotetrasiloxane

LD 50 (Rat): 4800mg/kg
LD 50 (Mouse): 1700mg/kg

Dermal

Product:

No data available

Specified substance(s):

Aminoethyl aminopropyl trimethoxy silane
Octamethylcyclotetrasiloxane

LD 50 (Rabbit): >2000mg/kg
LD 50 (Rat): 2400mg/kg

Inhalation

Product:

No Data available

Specified substance(s):

Octamethylcyclotetrasiloxane

LD (Rat, 4H): 12.1 mg/l
LC (Rat, 4H): 36mg/l

Repeated Dose Toxicity

Product:

No data available

Specified substance(s):

Aminoethyl aminopropyl trimethoxy silane

NOAEL (Rat, Oral, 28D): >=500mg/kg

Skin Irritation

Product:

No data available

Serious Eye Damage/Eye Irritation

Product:

No data available

Specified substance(s)

Aminoethyl aminopropyl trimethoxy silane

OECD Test Guideline 405 (Rabbit): Strongly irritating.

Octamethylcyclotetrasiloxane

OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit):
Not irritating

Respiratory or Skin Sensitisation

Product:

Causes sensitization on guineapigs. No human information is available.

Carcinogenicity

Product:

No data available

Germ Cell Mutagenicity in Vitro

Product:

No data available

Specified substance(s):

Octamethylcyclotetrasiloxane

Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guideline 476) (Mouse Lymphoma Assay (OECD Guideline 476)): negative (not mutagenic)

In Vivo

Product:

No data available

Specified substance(s):

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Octamethylcyclotetrasiloxane

Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

Reproductive Toxicity

Product:

No data available

Specific Target Organ Toxicity - Single Exposure

Product:

No data available

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available

Aspiration Hazard

Product:

No data available

Other Effects:

- Toxicity of methyl ethyl ketoxime (MEKO) liberated when the material is in touch with water or moisture in the air, or the material is curing. SKIN CONTACT: May cause mild skin irritation. EYE CONTACT: Causes severe eye irritation may damage tissue. ACUTE ORAL TOXICITY: LD50 = 4ml/kg (rat). ACUTE INHALATION: 4-hr LC50 = > 4.8mg/l (rat). INHALATION TOXICITY: Narcotic (central nervous system) effects in high concentrations. Effects were reversible when exposure was ended. Prolonged overexposure causes adverse effects on the blood. SKIN SENSITIVITY: Positive (guinea pig). No allergic reaction to humans. CARCINOGENICITY: A lifetime (about two years) inhalation study in male and female mice and rats revealed that liver tumours were observed in male mice and rats at a high exposure level of 375 ppm. OTHER LONG TERM EXPOSURE TESTS: Atrophy of nasal epithelium cells was observed in both mice and rats at all concentrations. The effect appeared reversible at lower concentrations. PERMISSIBLE CONCENTRATION: TWA 3 ppm (supplier's recommended value), Keep well ventilated (STEL 10 ppm or less). The WEEL recommended value of AIHA is TWA 10 ppm.

12. Effects on the environment

Ecotoxicity

Acute hazards to the aquatic environment

Fish

Product:

No data available

Specified substance(s):

Aminoethyl aminopropyl trimethoxy silane

LC50 (Lepomis macrochirus): > 100 mg/l

Aquatic Invertebrates

Product:

No data available

Specified substance(s)

Aminoethyl aminopropyl trimethoxy silane

EC50 (Daphnia magna, 48 h): 87.4 mg/l

Chronic hazards to the aquatic environment

Fish

Product:

No data available

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Aquatic Invertebrates

Product: No data available

Toxicity to Aquatic Plants

Product: No data available

Persistence and Degradability

Biodegradation

Product: No data available

BOD/COD Ratio

Product: No data available

Bio Accumulative Potential

Bioconcentration Factor (BCF)

Product: No data available

Partition Coefficient n-octanol / water (log Kow)

Product: No data available

Mobility

Mobility in Soil: No data available

Known or predicted distribution to environmental compartments

methyl tris-(methyl ethyl ketoximo) silane No data available

butanone oxime vinyl silane No data available

Aminoethyl aminopropyl trimethoxy silane No data available

Octamethylcyclotetrasiloxane No data available

Other adverse Effects No data available

13. Disposal considerations

Disposal Methods

Disposal instructions: Do not discharge into drains or the environment, dispose to an authorised collection point
State or local laws may impose additional regulatory requirements regarding disposal.

Contaminated Packaging: Do not discharge into drains or the environment, dispose to an authorised collection point

14. Transport information

State or local laws may impose additional regulatory requirements regarding disposal.

Classification of the substance in accordance with UN recommendations

UN Number : Not Applicable
CLASS : -
PACKAGING GROUP : -

ADR (transport by road)

CLASS : Not subject/Not regulated

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PACKAGING GROUP : -
 CLASSIFICATION CODE : -
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : -
 PROPER SHIPPING NAME : -

RID (transport by rail)

CLASS : Not subject/Not regulated
 PACKAGING GROUP : -
 CLASSIFICATION CODE : -
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : -
 PROPER SHIPPING NAME : -

ADNR (transport by inland waterways)

CLASS : Not subject/Not regulated
 PACKAGING GROUP : -
 CLASSIFICATION CODE : -
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : -

IMDG (maritime transport)

CLASS : Not subject/Not regulated
 SUB RISKS : -
 PACKAGING GROUP : -
 MFAG : -
 EMS : -
 MARINE POLLUTANT : -

ICAO (air freight)

CLASS : Not Subject/Not regulated
 SUB RISKS : -
 PACKAGING GROUP : -
 PACKAGING INSTRUCTIONS PASSENGER AIRCRAFT : -
 PACKAGING INSTRUCTIONS CARGO AIRCRAFT : -
 PROPER SHIPPING NAME : -

Special precautions: Keep separated from foodstuffs, animal feed, and odour sensitive materials

15. Regulatory information

National Regulations

The following regulations, rules or standards set forth the requirement for the classification, labelling, use, handling, storage, and transportation of chemicals.

Regulations on Safety Administration of Hazardous Chemicals, Decree No.591 of the State Council Catalogue of Hazardous Chemicals (2015 Version)

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Regulation of Safety Use Chemicals at Workplace
 Regulations on Labour Protection in Workplaces Where Toxic Products Are Used

Europe:

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU
 This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.
Octamethylcyclotetrasiloxane	556-67-2

- GB/T 16483: #Safety data sheet for chemical products - Content and order of sections#
- GB/T 17519: Guidance on the compilation of safety data sheets for chemical products
- GB 15258:#General rules for preparation of precautionary label for industrial chemicals#
- GB 30000.2 ~ GB 30000.29: Rules for classification and labelling of chemicals
- GB 13690:#General rule for classification and hazard communication of chemicals# GB 12268:#List of dangerous goods#
- GB 6944:#Classification and code of dangerous goods#
- GB 190 #Labels for packages of dangerous goods#
- GBZ 2.1#Occupational Exposure Limits for Hazardous Agents in the Workplace, Part 1, Chemical Hazardous Agents #

- International regulations Montreal Protocol** - not applicable
- Stockholm convention** - not applicable
- Rotterdam Convention** - not applicable
- Kyoto Protocol** - not applicable

Inventory Status:

- Australia AICS: y (positive listing)
- EU EINECS List: y (positive listing)
- China Inventory of Existing Chemical Substances: y (positive listing)

16. Other information

- Korea Existing Chemicals Inv. (KECI): y (positive listing)
- Philippines PICCS: y (positive listing)
- US TSCA Inventory: y (positive listing)
- New Zealand Inventory of Chemicals: y (positive listing)
- Taiwan. Taiwan inventory (CSNN): y (positive listing)

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 Revision Date: 23/02/2022

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References: No data available

Further Information: "Wear eye, hand and respiratory protection when in handling." 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.

This data completes the technical datasheet for use but does not replace it. The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements.

The data does not signify any warranty with regards to the products properties.

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