

# Food Grade Compliance Documentation

**PRODUCT:** FOOD ZONE SILICONE SEALANT - ALUMINUM

**CODE:** FZ14088 **SIZE:** 300ml

# THIS DOCUMENT CONTAINS

- SDS
- TDS
- NSF Registration
- Allergen Certificate



# **IN CASE OF EMERGENCY CALL: 13 11 26**

**CRC Industries Australia Pty. Ltd.** 

9 Gladstone Road Castle Hill NSW 2154, Australia www.crcindustries.com.au

**Toll Free: 1800 224 227** 

Email: info.au@crcind.com



# The Professional's Choice

# **SAFETY DATA SHEET**

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name FOOD ZONE SEALANT

Synonyms ALUMINIUM - FZ14088 ● CLEAR - FZ14083 ● GREY - FZ14087 ● WHITE -FZ14082

1.2 Uses and uses advised against

Uses ADHESIVE ● SEALANT

1.3 Details of the supplier of the product

Supplier name CRC INDUSTRIES (AUST) PTY LIMITED

Address 9 Gladstone Road, Castle Hill, NSW, 2154, AUSTRALIA

 Telephone
 (02) 9849 6700

 Fax
 (02) 9680 4914

 Email
 info.au@crcind.com

 Website
 www.crcindustries.com.au

1.4 Emergency telephone numbers

Emergency 13 11 26 (PIC)

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

# 2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

#### 2.3 Other hazards

No information provided.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
SILOXANES AND SILICONES, DIMETHYL, HYDROXY TERMINATED	70131-67-8	615-070-3	>60%
DIMETHYL SILOXANE	63148-62-9	613-156-5	5 to 10%
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE (REFINED)	64742-46-7	265-148-2	5 to 10%
SILICON DIOXIDE (SILICA, AMORPHOUS)	7631-86-9	231-545-4	5 to 10%
ETHYL TRIACETOXYSILANE	17689-77-9	241-677-4	1 to 5%
METHYL TRIACETOXYSILANE	4253-34-3	224-221-9	1 to 5%
ALUMINIUM	7429-90-5	231-072-3	<3%
TITANIUM DIOXIDE	13463-67-7	236-675-5	<3%
CARBON BLACK	1333-86-4	215-609-9	<1%

# 4. FIRST AID MEASURES



#### PRODUCT NAME FOOD ZONE SEALANT

#### 4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

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

See Section 11 for more detailed information on health effects and symptoms.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

#### 5.2 Special hazards arising from the substance or mixture

Combustible. May evolve toxic gases (formaldehyde, carbon/ silicon oxides, hydrocarbons) when heated to decomposition.

#### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

# 5.4 Hazchem code

None allocated.

#### 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

#### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

#### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate fire protection systems. Store as a Class C2 Combustible Liquid (AS1940).

#### 7.3 Specific end uses

No information provided.



# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

#### **Exposure standards**

Ingredient	Reference	TV	VA	STEL	
	Reference	ppm	mg/m³	ppm	mg/m³
Aluminium & compounds	SWA [Proposed]		1		
Aluminium (metal dust)	SWA [AUS]		10		
Carbon black	SWA [AUS]		3		
Fumed silica (respirable dust)	SWA [AUS]		2		
Mineral Oil Mist	SWA [AUS]		5		
Titanium dioxide (a)	SWA [AUS]		10		

#### **Biological limits**

No biological limit values have been entered for this product.

#### 8.2 Exposure controls

Avoid inhalation. Use in well ventilated areas. Maintain vapour levels below the recommended exposure **Engineering controls** 

standard.

PPE

Wear splash-proof goggles. Eye / Face Hands Wear PVC or rubber gloves.

When using large quantities or where heavy contamination is likely, wear coveralls. **Body** 

Respiratory Not required under normal conditions of use.





# 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

**Appearance** CLEAR OR COLOURED PASTE Odour ACETIC ACID ODOUR CLASS C2 COMBUSTIBLE

Flash point > 100°C

**Flammability** 

**Boiling point NOT AVAILABLE Melting point NOT AVAILABLE Evaporation rate NOT AVAILABLE** рΗ **NOT RELEVANT** Vapour density **NOT AVAILABLE** 

Specific gravity 1.01

Solubility (water) **INSOLUBLE** Vapour pressure **NOT AVAILABLE NOT AVAILABLE** Upper explosion limit Lower explosion limit **NOT AVAILABLE** Partition coefficient **NOT AVAILABLE NOT AVAILABLE** Autoignition temperature Decomposition temperature NOT AVAILABLE **NOT AVAILABLE** Viscosity **NOT AVAILABLE Explosive properties NOT AVAILABLE** Oxidising properties NOT AVAILABLE **Odour threshold** 

#### 10. STABILITY AND REACTIVITY



#### PRODUCT NAME **FOOD ZONE SEALANT**

#### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

#### 10.2 Chemical stability

Stable under recommended conditions of storage.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation is not expected to occur.

#### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid exposure to moisture.

#### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

#### 10.6 Hazardous decomposition products

May evolve toxic gases (formaldehyde, carbon/ silicon oxides, hydrocarbons) when heated to decomposition.

# 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute toxicity** 

No known toxicological effects from this product. Based on available data, the classification criteria are not

met.

#### Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
SILOXANES AND SILICONES, DIMETHYL, HYDROXY TERMINATED	> 62,080 mg/kg (rat)	> 15,520 mg/kg (rabbit)	
DIMETHYL SILOXANE	> 17000 mg/kg (rat)	> 2000 mg/ kg (rabbit)	
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE (REFINED)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 2.53 mg/L (rat)
SILICON DIOXIDE (SILICA, AMORPHOUS)	3160 mg/kg (rat)		
METHYL TRIACETOXYSILANE	2060 mg/kg (rat)		
TITANIUM DIOXIDE	5000 mg/kg (rat)		3.43 - 6.82 mg/L air (rat)
CARBON BLACK	> 10,000 mg/kg (rat)		

Not classified as a skin irritant. Prolonged or repeated contact may result in mild irritation, rash and Skin

dermatitis.

Not classified as an eye irritant. Due to product form and nature of use, the potential for exposure is reduced. Eye

However, direct contact may result in mild irritation, lacrimation and conjunctivitis.

Sensitisation Not classified as causing skin or respiratory sensitisation. However, formaldehyde may be evolved during

curing/decomposition which is classified as a skin sensitiser.

Mutagenicity Insufficient data available to classify as a mutagen.

Not classified as a carcinogen. Formaldehyde may be evolved during curing/decomposition which is Carcinogenicity

classified as a confirmed human carcinogen (IARC Group 1). Carbon black and Titanium dioxide are classified as possibly carcinogenic to humans (IARC Group 2B). However, due to product form, exposure to

contents is not anticipated.

Insufficient data available to classify as a reproductive toxin. Reproductive Not classified as causing organ damage from single exposure. STOT - single

exposure STOT - repeated

Not classified as causing organ damage from repeated exposure.

exposure

**Aspiration** Not classified as causing aspiration.

#### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No information provided.



#### PRODUCT NAME FOOD ZONE SEALANT

#### 12.2 Persistence and degradability

No information provided.

#### 12.3 Bioaccumulative potential

No information provided.

#### 12.4 Mobility in soil

No information provided.

#### 12.5 Other adverse effects

No information provided.

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site.

Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental

damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

#### 14. TRANSPORT INFORMATION

#### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

# 14.5 Environmental hazards

No information provided.

### 14.6 Special precautions for user

Hazchem code None allocated.

#### 15. REGULATORY INFORMATION

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

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

# 16. OTHER INFORMATION

# Additional information PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Page 5 of 6 SDS Date: 31.



SDS Date: 31 Jul 2020

#### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

#### Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

#### Prepared by

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[ End of SDS ]



# Product No. FZ14082,FZ14083,FZ14087,FZ14088

# TECHNICAL DATA SHEET



# **CRC Industries (Aust) Pty. Limited**

PO Box 199, Castle Hill, NSW 1765.

# I. Product Description

**CRC Food Zone Sealant** is a low modulus silicone joint sealant acetic cure. This highly flexible sealant has excellent adhesion to plastics, ceramics, stainless steel, metals and glass. The chemically stable formulations show little change in physical properties after exposure to moisture and temperature extremes.

It is specially formulated for use in food clean environments where NSF certification is required. Ideal for refrigerated rooms or household and other commercial uses.

#### II. Features & Benefits

- Highly flexible with excellent adhesion.
- Waterproof seal.
- Meets NSF/ANSI #51.
- Meets FDA Regulation 21 CFR 177.2600.

# III. Uses

- Ideal for use in food and other clean environments.
- Excellent adhesion to plastics, ceramics, stainless steel, metals glass, aluminum, kitchen and bathroom fixtures, porcelain, showers, sinks, tiles.

# IV. Application and Directions

#### **Directions:**

- Surface must be clean and dry before application.
- Use mechanical or solvent cleaning. Do not use soap or detergent.
- Use masking tape to cover surfaces and joints to simplify cleaning.
- If surface requires primer, the primer must be dry before applying sealant.
- Before placing cartridge in application gun, slice nozzle at 45 degree angle at desired bead size.
- Press nozzle against surface and apply sealant.
- Tool to eliminate all voids within 5 minutes of applying sealant. Tack-free time is within 20 minutes.
- Sealant will fully cure in 24 hours.
- Remove masking tape within 1 hour. Any uncured sealant can be cleaned up with mineral turpentine.

# Product No. FZ14082,FZ14083,FZ14087,FZ14088

#### Wet Materials:

- Remove surface water as much as possible.
- Keep nozzle close to surface so extruding sealant immediately contacts the surface.
- Tool the sealant immediately into joint.
- Adhesion will improve on drying. Where adhesion is difficult, wipe the surface with solvent and apply sealant to partially dry substrate.
- *CRC Food Zone Sealant* will seal on non-porous surfaces such as glass, metal and tiles, but adhesion to porous substances such as cement and timber may not be possible while wet.

# V. Typical Properties and Characteristics

#### **Physical Properties & Performance Characteristics:**

Composition	Silicone Polymer	Tensile Strength	≥ 1.0 MPa
Curing Method	Acid (Acetic)	Dynamic Joint Movement	± 25%
Colour	Various	Tooling Time	6-20 minutes
Service Temperatures	-60℃ to +150℃	Toxicity	Not suitable for fish tanks
Peel Strength (ASTM C794)	2.9 kN/m	Tack Free Time	10 - 20 minutes
Hardness (Shore A)	20-35	Cure Time (5mm, 20°C / 55%RH)	24 hours
Sag / slump (w = 20mm)	< 1mm		

# VI. Package Description

Part Number	Size
FZ14082 Food Grade Silicone Sealant White	375grm cartridge
FZ14083 Food Grade Silicone Sealant Clear	375grm cartridge
FZ14087 Food Grade Silicone Sealant Grey	375grm cartridge
FZ14088 Food Grade Silicone Sealant Aluminium	375grm cartridge

# VII. Special Precautions

#### General:

Uncured sealant may cause skin, eye and respiratory system irritation.

Use only in well ventilated areas.

Use appropriate personal protection to avoid contact with skin and eyes.

#### First Aid:

In case of eye contact or irritation, flush eye immediately with running water for 15 minutes and get medical attention.

In case of skin contact, wash affected areas with hand cleaner followed by soap and water. Product releases acetic during application and curing. For further health and safety information consult current Safety Data Sheet.

**PRODUCT WARRANTY:** CRC offers a conditional warranty on this product for the period of 5 years from the date of manufacture.

**<u>DISCLAIMER</u>**: All information on this data sheet is based on testing by CRC Industries (Aust.) Pty. Ltd. All products should be tested for suitability on a particular application prior to actual use. CRC Industries (Aust.) Pty. Ltd. makes no representations or warranties of any kind concerning this data.

TDS Date: August, 2021

Global Headquarters: 800 Enterprise Road, Suite 101 | Horsham, PA 19044 | 215.674.4300 Manufacturing and R&D Center: 885 Louis Drive | Warminster, PA 18974 | 215.674.4300

April 2020

# **Certificate of Acceptability**

Dear CRC® Valued Customer:

In 1998, the USDA Food Safety Inspection Service discontinued the testing of new and reformulated proprietary substances and nonfood compounds intended for use in USDA inspected food-processing facilities. In December of 1999, the National Sanitation Foundation (NSF), a non-profit, third party product certifier specializing in public health and safety, revived the USDA authorization program with the launch of their own Registration and Listing Program for Proprietary Substances and Non-Food Compounds. The NSF program is fee based and mirrors the previous USDA program evaluation for all product categories. Once a product has successfully gone through the NSF approval process, it receives a registration number. This registration number is listed on the label of the NSF registered product, along with the registration mark and category code.

CRC products authorized by the USDA before 1998 continue to meet USDA 1998 guidelines. Products introduced or modified after January 1999 are submitted to the NSF authorization process and carry the new NSF registration upon approval.

NSF/ANSI 51 establishes minimum public health and sanitation requirements for materials and finishes used in the manufacture of commercial foodservice equipment (such as broilers, beverage dispensers, cutting boards and stock pots) and its components (such as tubing, sealants, gaskets and valves). These products are acceptable as a sealant for all food contact types with a maximum temperature use of 400°F.

Food Zone Silicone Sealant – Aluminum (cartridge)
No. 14088 (Item# 1004824)
Category Code NSF/ANSI 51

For more information, please contact our Technical Service Department at 800-521-3168.

**CRC Industries, Inc.** 

Global Headquarters: 800 Enterprise Road, Suite 101 | Horsham, PA 19044 | 215.674.4300 Manufacturing and R&D Center: 885 Louis Drive | Warminster, PA 18974 | 215.674.4300

# **ALLERGEN CERTIFICATE**

Date: 7-May-19

Product Name: Food Zone Silicone Sealant - Aluminum (cartridge)

Product Code: No. 14088 (Item# 1004824)

CRC has evaluated the above product against a list of internationally recognized and regulated allergens. The following information is provided to assist our customers in complying with allergen safety programs.

Allergen	Present in Product	Present on Same Production Line	Present in Facility
Dairy / Milk	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Soy	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Peanut	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Egg	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Tree Nut (almonds, brazil nuts, cashews, hazelnuts, macadamia nuts, pecans, pine nuts, pistachio nuts	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
and walnuts) Sesame Seed	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Mustard Seed	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Gluten (wheat, barley, oats, rye)	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Seafood (fish, crustacean and molluscan shellfish)	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Sulfites	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Buckwheat	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Celery	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Lupin	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Bee pollen / Propolis	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Royal Jelly	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Mango	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Peach	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Pork	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Tomato	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No
Latex (natural rubber)	□Yes / ⊠No	□Yes / ⊠No	□Yes / ⊠No

This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. For more information, please contact our Technical Service Dept at 800-521-3168.

CRC INDUSTRIES, INC.

Michelle Rudrick

Michelle Rudnick Senior Manager Regulatory Affairs