CRC

SAFETY DATA SHEET

1. Identification

Product identifier Food Zone Silicone Sealant - Aluminum (cartridge)

Other means of identification

Product code No. 14088 (Item# 1004824)

Recommended use Sealant and adhesive

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

 General Information
 215-674-4300

 Technical Assistance
 800-521-3168

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air

supply during use and while product is drying. Avoid release to the environment.

Category 3

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

When heated to temperature above 300°F/150°C in the presence of air, product may form formaldehyde vapors. When exposed to water or humid air, product evolves acetic acid (HOAc).

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
polydimethylsiloxane, hydroxy-terminated		70131-67-8	70 - 90

Material name: Food Zone Silicone Sealant - Aluminum (cartridge)

No. 14088 (Item# 1004824) Version #: 02 Revision date: 08-15-2017 Issue date: 04-24-2015

Chemical name	Common name and synonyms	CAS number	%
amorphous silica		7631-86-9	5 - 10
distillates (petroleum), hydrotreated middle		64742-46-7	5 - 10
aluminum		7429-90-5	1 - 3
iron oxide		1309-37-1	1 - 3
titanium dioxide		13463-67-7	1 - 3
carbon black		1333-86-4	< 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Get medical attention if symptoms occur.

Skin contact Wash with water and soap as a precaution. Get medical attention if symptoms occur.

Eye contactFlush eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.

Ingestion

If swallowed, do NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth

thoroughly.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically.

treatment needed

General information Ensure tha

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing Water. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions General fire hazards

media

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent product from entering drains. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Use care in handling/storage. For product usage instructions, see the product label.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

luminum (CAS 7429-90-5)	DEL		
,	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
arbon black (CAS	PEL	3.5 mg/m3	
333-86-4)			
istillates (petroleum),	PEL	5 mg/m3	Mist.
ydrotreated middle (CAS			
4742-46-7)			
		400 mg/m3	
		100 ppm	_
on oxide (CAS 1309-37-1)	PEL	10 mg/m3	Fume.
tanium dioxide (CAS	PEL	15 mg/m3	Total dust.
3463-67-7) S. OSHA Table Z-3 (29 CFR 1910.1000)			
components	Туре	Value	Form
omponents	туре	value	
luminum (CAS 7429-90-5)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
morphous silica (CAS	TWA	0.8 mg/m3	
631-86-9)		00	
(OAO 4000 07 4)	T14/4	20 mppcf	Descinable for the
on oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
tanium dioxide (CAS	TWA	5 mg/m3	Respirable fraction.
3463-67-7)		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
		13 пірреі	respirable fraction.
S. ACGIH Threshold Limit Values	T	Walana	F a
omponents	Туре	Value	Form
luminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
arbon black (CAS	TWA	3 mg/m3	Inhalable fraction.
333-86-4)		-	
istillates (petroleum),	TWA	5 mg/m3	Inhalable fraction.
ydrotreated middle (CAS			
4742-46-7) on oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
tanium dioxide (CAS	TWA	3 mg/m3 10 mg/m3	respirable fraction.
3463-67-7)	1 VV/A	io mg/ms	
S. NIOSH: Pocket Guide to Chemical Ha	azards		
omponents	Type	Value	Form
•		E malm?	Wolding fuma or
luminum (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume or pyrophoric powder.
		5 mg/m3	Respirable.
		10 mg/m3	Total
morphous silica (CAS	TWA	6 mg/m3	10101
631-86-9)	1 4 4 / 1	o mg/mo	
arbon black (CAS	TWA	0.1 mg/m3	
		3	
333-86-4)			
333-86-4) istillates (petroleum), ydrotreated middle (CAS	STEL	10 mg/m3	Mist.

US. NIOSH: Pocket Guide to Chemical Hazards

 Components
 Type
 Value
 Form

 TWA
 5 mg/m3
 Mist.

 iron oxide (CAS 1309-37-1)
 TWA
 5 mg/m3
 Dust and fume.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelinesOccupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide

evewash station.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear protective gloves such as: Nitrile. Butyl rubber.

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Solid, Liquid.
Form Paste.
Color Aluminum.
Odor Acetic acid.
Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

range

680 °F (360 °C) estimated

Flash point > 212 °F (> 100 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Vapor pressure 791.8 hPa estimated

Vapor density Not available.

Relative density 1.01

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 500 °F (260 °C) estimated

Decomposition temperature Not available. **Viscosity (kinematic)** Not available.

Percent volatile Not available.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Heat, flames and sparks. Contact with incompatible materials. When heated to temperature above 300°F/150°C in the presence of air, product may form formaldehyde vapors. When exposed to

water or humid air, product evolves acetic acid (HOAc).

Incompatible materials Strong oxidizing agents. Water, moisture.

Hazardous decomposition

products

Carbon oxides. Silicone dioxide. Formaldehyde. Metal oxides. Nitrogen oxides (NOx).

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contactProlonged skin contact may cause temporary irritation.Eye contactDirect contact with eyes may cause temporary irritation.IngestionHealth injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

amorphous silica (CAS 7631-86-9)

Acute Oral

LD50 Rat > 22500 mg/kg

carbon black (CAS 1333-86-4)

Acute Oral

LD50 Rat > 8000 mg/kg

titanium dioxide (CAS 13463-67-7)

Acute Dermal

LD50 Rabbit > 10000 mg/kg

Oral

LD50 Rat > 10000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

amorphous silica (CAS 7631-86-9)

iron oxide (CAS 1309-37-1)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

^{*} Estimates for product may be based on additional component data not shown.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
aluminum (CAS 7429-90-5)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.16 mg/l, 96 hours
distillates (petroleum), hydro	otreated middle (C	AS 64742-46-7)	
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/l, 96 hours
			8.8 mg/l, 96 hours
titanium dioxide (CAS 13463	3-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	1000 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

Bioaccumulative potential

Bioconcentration factor (BCF)

titanium dioxide 352

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal of waste from residues / unused products

This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

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Hazardous waste code Not regulated.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Material name: Food Zone Silicone Sealant - Aluminum (cartridge)

SDS US

Not regulated as dangerous goods.

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Section 311/312 Immediate Hazard - No Delayed Hazard - No **Hazard categories** Fire Hazard - No

Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

aluminum (CAS 7429-90-5)

carbon black (CAS 1333-86-4)

distillates (petroleum), hydrotreated middle (CAS 64742-46-7)

titanium dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

aluminum (CAS 7429-90-5)

carbon black (CAS 1333-86-4)

iron oxide (CAS 1309-37-1)

titanium dioxide (CAS 13463-67-7)

US. Massachusetts RTK - Substance List

aluminum (CAS 7429-90-5)

amorphous silica (CAS 7631-86-9)

carbon black (CAS 1333-86-4)

titanium dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

aluminum (CAS 7429-90-5)

amorphous silica (CAS 7631-86-9)

carbon black (CAS 1333-86-4)

distillates (petroleum), hydrotreated middle (CAS 64742-46-7)

iron oxide (CAS 1309-37-1) titanium dioxide (CAS 13463-67-7)

US. Rhode Island RTK

carbon black (CAS 1333-86-4) iron oxide (CAS 1309-37-1) titanium dioxide (CAS 13463-67-7)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR

51.100(s))

< 3 %

Consumer products (40 CFR 59, Subpt. C) Not regulated

State

Consumer products This product is regulated as a Sealant and Caulking Compound. This product is compliant for use

in all 50 states.

< 3 % VOC content (CA) VOC content (OTC) < 3 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

04-24-2015 Issue date 08-15-2017 **Revision date** Prepared by Allison Yoon

Version # 02

Further information Not available. Health: 1 **HMIS®** ratings Flammability: 1 Physical hazard: 0 Personal protection: B

Health: 1 NFPA ratings

Flammability: 1 Instability: 0

SDS US

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NFPA ratings



Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries, Inc..

Revision Information

This document has undergone significant changes and should be reviewed in its entirety.

SDS US

No. 14088 (Item# 1004824) Version #: 02 Revision date: 08-15-2017 Issue date: 04-24-2015