SAFETY DATA SHEET

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200

1. Identification of the substance or mixture and of the supplier

1.1 Product identifier:

Product name: CAF 520 S WHITE **Product No.:** PRCO90061288

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

Identified uses: Used for making joints, sealing and gluing.
Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:
Elkem Silicones France SAS
1-55 rue des Frères PERRET
F-69 192 SAINT FONS Cedex

Telephone: +33 (0) 4 72 73 74 75
Fax: +33 (0) 4 72 73 75 99

E-mail: fds.sil@elkem.com

Supplier:
Elkem Silicones USA Corp.
Two Tower Blvd, Suite 1802
08816-1100 East Brunswick, NJ

Telephone: +1 (732) 227-2060
Fax: +1 (732) 249-7000

1.4 Emergency telephone number: +1 (800) 424-9300 CHEMTREC

2. Hazards identification

2.1 Classification of the substance or mixture:

The product has been classified according to the legislation in force.

Hazard Classification:

Health Hazards:

Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Toxic to reproduction	Category 2	H361f: Suspected of damaging fertility.

2.2 Label Elements:

Hazard pictograms:

Signal Word: Warning

Hazard statements:
H317: May cause an allergic skin reaction.
H361f: Suspected of damaging fertility.
Titanium Dioxide:
When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

Precautionary Statements:

Prevention:	P280: Wear protective clothing.
Response:	P302+P350+P332+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards which do not result in GHS classification:

No data available.

Substance(s) formed under the conditions of use:

Chemical name	CAS-No.	Concentration*
Ethanol	64-17-5	<0.35%
Methanol	67-56-1	<2.5%

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

3. Composition/information on ingredients

Mixtures:

General information: Mixture of polydimethylsiloxanes, silica and curing agents.

Chemical name	Concentration*	Type	CAS number
3-Aminopropyltriethoxysilane	0.1 - <1%	Component	919-30-2
Octamethylcyclotetrasiloxane	0.1 - <1%	Impurities	556-67-2

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

4. First-aid measures

General information:
For further information refer to section 8 "Exposure-controls/personal protection".

4.1 Description of first aid measures:

Inhalation:
Move into fresh air and keep at rest.
Get medical attention if any discomfort continues.

Skin contact:
Wash skin thoroughly with soap and water. Get medical attention if symptoms occur after washing.

Eye contact:
In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.
Get medical attention if irritation persists after washing.

Ingestion:
Do not induce vomiting. Rinse mouth thoroughly.
Get medical attention if symptoms occur.

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

None known.

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

Hazards:
No specific recommendations.

Treatment:
No specific recommendations.

5. Fire-fighting measures

General Fire Hazards:
No specific recommendations.

5.1 Extinguishing media:

Suitable extinguishing media:
Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media:
Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

Product will burn under fire conditions. Hazardous Decomposition Products : formaldehyde, oxides of carbon and silica.

5.3 Advice for firefighters:

Special fire fighting procedures:
Water spray should be used to cool containers.

Special protective equipment for fire-fighters:
Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ventilate the area. Do not breathe vapor. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental Precautions:

Collect spillage. Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up:

Absorb with sand or other inert absorbent and place into containers.

6.4 Reference to other sections:

Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

7. Handling and storage

7.1 Precautions for safe handling:

Precautions:
Avoid breathing dust/fume/gas/mist/vapors/spray. See Section 8 of the SDS for Personal Protective Equipment. For further information, refer to section 10: "Stability and Reactivity".

Hygiene measures:

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.

7.2 Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3 Specific end use(s):

No data available.

8. Exposure controls/personal protection

8.1 Control Parameters:

Occupational Exposure Limits:

None of the components have assigned exposure limits.

Additional exposure limits under the conditions of use:

Chemical name	Type	Exposure Limit Values	Source
Ethanol	TWA	1,000 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	REL	1,000 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	1,000 ppm 1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values, as amended (2009)
Methanol	STEL	250 ppm 325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
	STEL	250 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
	STEL	250 ppm 325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	REL	200 ppm 260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	200 ppm 260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	200 ppm 260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)

8.2 Exposure controls:

Appropriate Engineering Controls:
No specific recommendations.

Individual protection measures, such as personal protective equipment:
Provide sufficient ventilation during operations which cause vapor formation.

Eye/Face Protection: Safety glasses with side shields.

Hand Protection: Material: Protective gloves are recommended.

Skin and Body Protection: Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory Protection: If ventilation is insufficient, suitable respiratory protection must be provided.

Environmental Controls:

No data available.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	
Physical state:	Solid
Form:	Viscous
Color:	Colorless, Translucent
Odor:	Alcohol
Odor Threshold:	No data available.
pH:	Not applicable.
Melting point/freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	75.5 °C (Closed cup according to method Afnor T 60103.)
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	Approximate 1.02 kg/dm3 (20 °C)
Solubility(ies):	
Solubility in Water:	Practically Insoluble
Solubility (other):	Acetone: Very slightly soluble Ethanol: Very slightly soluble Aliphatic hydrocarbons: Partially soluble. Aromatic hydrocarbons: Partially soluble. Chlorinated solvents: Partially soluble.
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

9.2 Other information: No data available.

10. Stability and reactivity

10.1 Reactivity:

Vulcanizes at room temperature on contact with moisture in the air.

10.2 Chemical Stability:

Stable at room temperature provided it is not in contact with air.

10.3 Possibility of hazardous reactions:

Will not occur.

10.4 Conditions to avoid:

None known.

10.5 Incompatible Materials:

Strong oxidizing agents and water.

10.6 Hazardous Decomposition Products:

Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.

11. Toxicological information

Information on likely routes of exposure:

Inhalation:
No data available.

Ingestion:
No data available.

Skin contact:
No data available.

Eye contact:
No data available.

11.1 Information on toxicological effects:

Acute toxicity:

Oral:
Not classified for acute toxicity based on available data.

Dermal:
Not classified for acute toxicity based on available data.

Inhalation:
Not classified for acute toxicity based on available data.

Repeated dose toxicity:

Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
NOAEL: 200 mg/kg ; LOAEL: 600 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 408 ; Subchronic exposure

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
NOAEL: 1.82 mg/l ; (Rat ; Female, Male ; Inhalation - vapour) ; Method: Similar to OECD 453 ; Chronic exposure
NOAEL: 960 mg/kg ; (Rabbit ; Female, Male ; Dermal) ; Method: Similar to OECD 410 ; Subacute exposure

Skin Corrosion/Irritation:

Not irritating ; Test results obtained on a similar product.

Serious Eye Damage/Eye Irritation:

Not irritating ; Test results obtained on a similar product.

Respiratory or Skin Sensitization:

Based on our knowledge of the composition information: May cause an allergic skin reaction.

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
May cause an allergic skin reaction. (Guinea Pig) ; Method: OECD 406

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406

Germ Cell Mutagenicity:

In vitro: Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
Bacteria: No mutagenic effects., with and without metabolic activation (Salmonella typhimurium ; Yes) ; Method: OECD 471
Chromosomal aberration: No clastogenic effect., with and without metabolic activation (Chinese hamster lung cells ; Yes) ; Method: OECD 473
In vitro gene mutations test on mammalian cells: No mutagenic effects., with and without metabolic activation (Chinese hamster ovary cells ; Yes) ; Method: OECD 476

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Bacterial reverse mutation test: No mutagenic effects. (Salmonella typhimurium ; with and without metabolic activation) ; Method: OECD 471
In vitro gene mutations test on mammalian cells: No mutagenic effects. (Mouse lymphoma cells ; with and without metabolic activation) ; Method: Similar to OECD 476
In vitro mammalian chromosomal aberration test: No clastogenic effect. (Chinese hamster ovary cells ; with and without metabolic activation) ; Method: Similar to OECD 473

In vivo: Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
Mammalian erythrocyte micronucleus test: No mutagenic effects. (Mouse ; Female, Male ; Intraperitoneal) ; Method: OECD 474

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Mammalian bone marrow chromosomal aberration test: negative (Rat ; Female, Male ; Inhalation) ; Method: Similar to OECD 475
Rodent dominant Lethal test: negative (Rat ; Female, Male ; Gavage (Oral)) ; Method: Similar to OECD 478

Carcinogenicity:

Based on our knowledge of the composition information:

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Not classified
No effects expected. NOAEC: >= 8.492 mg/l (Rat ; Female, Male ; Inhalation - vapor) ; Method: Similar to OECD 453 ; Chronic exposure

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities.

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogens present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogens present or none present in regulated quantities.

Reproductive toxicity:

Fertility: Based on our knowledge of the composition information: Suspected of damaging fertility.

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Suspected of damaging fertility.
Fertility study 2 generations: NOAEL (parent): 3.64 mg/l NOAEL (F1): 3.64 mg/l ; NOAEL (F2): None. (Rat ; Female, Male ; Inhalation) ; Method: Similar to OECD 416 ; Effects on fertility

Teratogenicity: Based on our knowledge of the composition information: Suspected of damaging fertility.

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
Not classified
NOAEL (terato): 100 mg/kg ; NOAEL (mater): 100 mg/kg (Rat ; Ingestion) ; Method: OECD 414 ; The product is not considered to be toxic for development.

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Not classified
NOAEL (terato): >= 8.492 mg/l ; NOAEL (mater): 3.64 mg/l (Rat ; Inhalation - vapor) ; Method: Similar to OECD 414 ; The product is not considered to be toxic for development.
NOAEL (terato): >= 6.066 mg/l ; NOAEL (mater): 3.64 mg/l (Rabbit ; Inhalation - vapor) ; Method: Similar to OECD 414 ; The product is not considered to be toxic for development.

Specific Target Organ Toxicity - Single Exposure:

Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
Not classified

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure:

Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
Not classified

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Based on available data, the classification criteria are not met.

Aspiration Hazard:

Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
Not classified

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Toxicity:

Acute toxicity:

Fish: Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
LC 50 (Danio rerio; 96 h ; semi-static): : > 934 mg/l ; Method: OECD 203

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
LC 50 (Oncorhynchus mykiss; 96 h ; Flow through): : > 0.022 mg/l ; Method: According to a standardised method.

Aquatic Invertebrates: Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
EC 50 (Water flea (Daphnia magna); 48 h ; Static) : 331 mg/l

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
EC 50 (Water flea (Daphnia magna); 48 h ; Flow through) : > 0.015 mg/l ; Method: According to a standardised method.

Aquatic plants: Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
EC 50 (Green algae (Scenedesmus subspicatus); 72 h ; Static) : > 1,000 mg/l ; Method: According to a standardised method.
NOEC (growth rate) (Green algae (Scenedesmus subspicatus); 72 h ; Static) : 1.3 mg/l ; Method: According to a standardised method.

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
ErC50 (Algae (Pseudokirchneriella subcapitata); 96 h) : > 0.022 mg/l ; Method: According to a standardised method.
ErC10 (Algae (Pseudokirchneriella subcapitata); 96 h) : >= 0.022 mg/l ; Method: According to a standardised method.

Toxicity to microorganisms: Based on our knowledge of the composition information:

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
EC 50 (3 h) : > 10,000 mg/l

Chronic Toxicity:

Fish: Based on our knowledge of the composition information:

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
NOEC (Oncorhynchus mykiss; 93 d ; Flow through) : >= 0.0044 mg/l ; Method: According to a standardised method.

Aquatic Invertebrates: Based on our knowledge of the composition information:

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
NOEC (Water flea (Daphnia magna); 21 d ; Flow through) : >= 0.015 mg/l ; Method: According to a standardised method.

12.2 Persistence and Degradability:

Biodegradation: Based on our knowledge of the composition information:

3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
67 % (sewage, domestic (adaptation not specified) ; 28 d ; Dissolved organic carbon (DOC)) ; Method:According to a standardised method. The product is not readily biodegradable.

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
3.7 % (activated sludge and sewage, soil ; 28 d) ; Method:OECD 310 The product is not considered to be readily biodegradable.

BOD/COD Ratio: No data available.

12.3 Bioaccumulative potential:

Bioconcentration Factor (BCF): Based on our knowledge of the composition information:
3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
3.4 (Common Carp) ; Method: OECD 305

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
14,900 (Fathead Minnow) ; Method: OECD 305 ; Not bioaccumulable based on the depuration rate constant

Partition coefficient (n-octanol/water): Based on our knowledge of the composition information:
3-AMINOPROPYLTRIETHOXYSILANE (CAS-No. 919-30-2):
Log Kow: -2.9 ; Method: estimated ; Results obtained on a similar product.

OCTAMETHYLCYCLOTETRASILOXANE (CAS-No. 556-67-2):
Log Kow: 6.49 (25 °C) ; Method: OECD 123

12.4 Mobility in soil:

No data available.

12.5 Other adverse effects:

No data available.

13. Disposal considerations

13.1 Waste treatment methods:

Disposal methods:
Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging:
Contaminated packages should be as empty as possible.

14. Transport information

This material is not subject to transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

15. Regulatory information

US Federal Regulations:

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard categories:
Respiratory or Skin Sensitization, Reproductive toxicity

SARA 304 Emergency Release Notification:

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 312 Extremely Hazardous Substances Reporting Quantities (40 CFR 355, Appendix A):

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

US State Regulations:

US. California Proposition 65:

This product can expose you to chemicals including: Methanol (0.4%): which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List:

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances:

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK:

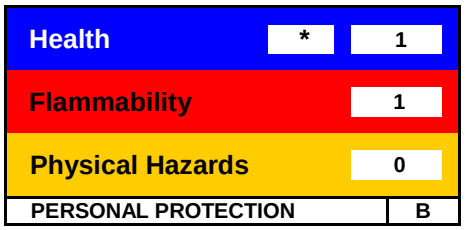
No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory.
EINECS, ELINCS or NLP:	On or in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory.

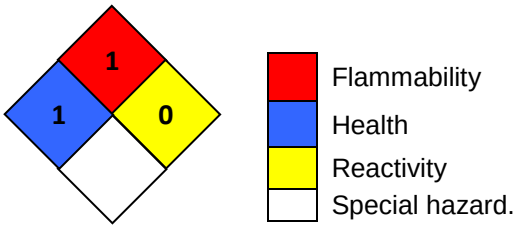
16. Other information, including date of preparation or last revision

HMIS Hazard ID:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect
B - Safety Glasses & Gloves

NFPA Hazard ID:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 03/03/2020

Version #: 1.0

Further Information:

No data available.

Disclaimer:

The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.