

# SAFETY DATA SHEET

According to regulation (EC) n° 1907/2006 Annex II

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Product name:** CAF 33 BLACK

**Product No.:** PRCO90000184

### 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 Germany GmbH  
Hans-Sachs-Strasse 4a  
D-23566 Lübeck

**Telephone:** +49 (0) 451 6 09 81-27

**Fax:** +49 (0) 451 6 09 81-11

### 1.4 Emergency telephone number: CHEMTREC Germany (24h) : +(49)-69643508409

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

**Classification according to Regulation (EC) No 1272/2008 as amended.**

#### Health Hazards

Serious eye irritation

Category 2

H319: Causes serious eye irritation.

### 2.2 Label Elements



**Signal Word:** Warning

**Hazard Statement(s):** H319: Causes serious eye irritation.

#### Precautionary Statements

**Prevention:** P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

#### Hazard summary

**Physical Hazards:** During curing, the product will release small quantities of irritating vapors.

**Health Hazards**

**Inhalation:** No specific symptoms noted.

**Eye contact:** Causes serious eye irritation.

**Skin Contact:** No specific symptoms noted.

**Ingestion:** No specific symptoms noted.

**Other Health Effects:** No other information noted.

**Environmental Hazards:** Not regarded as dangerous for the environment.

**2.3 Other hazards** No data available.

#### Substance(s) formed under the conditions of use:

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
Acetic acid	<3%	64-19-7		No data available.	#

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

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

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Methylsilanetriyl triacetate	1 - <3%	4253-34-3	224-221-9	No data available.	No data available.	
Octamethylcyclotetra siloxane	1 - <3%	556-67-2	209-136-7	01-2119529238-36-0002	No data available.	#
Acetic acid		64-19-7	200-580-7	No data available.	No data available.	#

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

# This substance has workplace exposure limit(s).

#### Classification

Chemical name	Classification	Notes
Methylsilanetriyl triacetate	Acute Tox. 4 H302; Skin Corr. 1C H314;	No data available.

Octamethylcyclotetrasiloxane	Flam. Liq. 3 H226; Repr. 2 H361f; Aquatic Chronic 4 H413;	No data available.
Acetic acid	Flam. Liq. 3 H226; Skin Corr. 1A H314;	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

#### SECTION 4: First aid measures

**General:** Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

##### 4.1 Description of first aid measures

**Inhalation:** Move into fresh air and keep at rest.

**Skin Contact:** Remove contaminated clothing and shoes. Wash with soap and water.

**Eye contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

**Ingestion:** Do not induce vomiting. Rinse mouth thoroughly.

**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.

#### SECTION 5: Firefighting measures

**General Fire Hazards:** No specific recommendations.

##### 5.1 Extinguishing media

**Suitable extinguishing media:** Extinguish with foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media:** Do not use water as an extinguisher.

**5.2 Special hazards arising from the substance or mixture:** For further information, refer to section 10: "Stability and Reactivity".

##### 5.3 Advice for firefighters

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

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures:

**6.1.1 For non-emergency personnel:** Use personal protective equipment. Do not breathe vapor. See Section 8 of the SDS for Personal Protective Equipment. Ventilate the area.

**6.1.2 For emergency responders:** No data available.

**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:** Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber.

**6.4 Reference to other sections:** Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling:** Adequate ventilation should be provided so that exposure limits are not exceeded.

**7.2 Conditions for safe storage, including any incompatibilities:** Avoid discharge into drains, water courses or onto the ground. Store in tightly closed original container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Avoid contact with oxidizing agents. Vulcanizes at room temperature on contact with moisture in the air. For further information, refer to section 10: "Stability and Reactivity". Suitable containers: Steel drums coated with epoxy-resin.

**Lagerungshinweise:** Es liegen keine Daten vor.

**Storage Class:** No data available.

**7.3 Specific end use(s):** No specific recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Octamethylcyclotetrasiloxane	VME	10 ppm 120 mg/m3	

### Additional exposure limits under the conditions of use

Chemical name	Type	Exposure Limit Values	Source
Acetic acid	MAK	10 ppm 25 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2009)
	TWA	10 ppm 25 mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU (12 2009)
	AGW	10 ppm 25 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW) (01 2010)

### 8.2 Exposure controls

<b>Appropriate Engineering Controls:</b>	Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Use engineering controls to reduce air contamination to permissible exposure level.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information:</b>	Provide sufficient ventilation during operations which cause vapor formation.
<b>Eye/face protection:</b>	Safety Glasses.
<b>Skin protection</b>	
<b>Hand Protection:</b>	Material: Rubber gloves are recommended.
<b>Other:</b>	It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.
<b>Respiratory Protection:</b>	If ventilation is insufficient, suitable respiratory protection must be provided.
<b>Hygiene measures:</b>	Provide eyewash station and safety shower.
<b>Environmental Controls:</b>	No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	Paste
<b>Form:</b>	Thixotropic
<b>Color:</b>	Black
<b>Odor:</b>	Vinegar
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	Not applicable.
<b>Melting Point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	> 150 °C (Closed cup according to method Afnor T 60103.)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	Approximate 1,04 kg/dm <sup>3</sup> (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Practically Insoluble
<b>Solubility (other):</b>	Acetone: Insoluble Ethanol: Insoluble Petrol.: Partially soluble. White-spirit.: Partially soluble. Aromatic hydrocarbons: Partially soluble. Chlorinated solvents: Partially soluble.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	> 200 °C

<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

**9.2 Other information:** No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Vulcanizes at room temperature on contact with moisture in the air.
<b>10.2 Chemical Stability:</b>	Stable at room temperature provided it is not on contact with air.
<b>10.3 Possibility of hazardous reactions:</b>	No data available.
<b>10.4 Conditions to avoid:</b>	No other information noted.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing agents. Water.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica. During use or in contact with water, may generate hazardous substances.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### 11.1 Information on toxicological effects:

#### Acute toxicity:

##### Oral:

<b>Product:</b>	Not classified for acute toxicity based on available data.
-----------------	--

##### Dermal:

<b>Product:</b>	Not classified for acute toxicity based on available data.
-----------------	--

##### Inhalation:

<b>Product:</b>	Not classified for acute toxicity based on available data.
-----------------	--

#### Repeated dose toxicity:

<b>Product:</b>	Composition/information on ingredients
<b>Specified substance(s):</b>	
Methylsilanetriyl triacetate	NOAEL (Rat(Female, Male), Oral): 50 mg/kg Method: OECD 422 Results obtained on a similar product. NOAEL (Rat(Female, Male), Inhalation - vapor): 0,56 mg/l Method:

	OECD 413 LOAEL (Rat(Female, Male), Inhalation - vapor): 2,2 mg/l Results obtained on a similar product.
octamethylcyclotetrasiloxane	NOAEL (Rat, Inhalation): 1,820 mg/l Method: OECD 453 NOAEL (Rabbit, Dermal): 960 mg/kg Method: OECD 411
acetic acid...%	NOAEL (Rat, Feed (Oral)): 290 mg/kg Method: Expert judgement.
<b>Skin Corrosion/Irritation:</b>	
<b>Product:</b>	Test results Not irritating Results obtained on a similar product.
<b>Serious Eye Damage/Eye Irritation:</b>	
<b>Product:</b>	Test results Irritant. Results obtained on a similar product.
<b>Respiratory or Skin Sensitization:</b>	
<b>Product:</b>	Composition/information on ingredients
<b>Specified substance(s):</b> Methylsilanetriyl triacetate	OECD 406 (Guinea Pig) : Not a skin sensitizer.
octamethylcyclotetrasiloxane	Guinea Pig : Not a skin sensitizer.
<b>Germ Cell Mutagenicity:</b>	
<b>In vitro:</b>	
<b>Product:</b>	Composition/information on ingredients
<b>Specified substance(s):</b> Methylsilanetriyl triacetate	Bacteria (OECD 471): No mutagenic effects. In vitro gene mutations test on mammalian cells: (OECD 476): No mutagenic effects.Results obtained on a similar product. Chromosomal aberration (OECD 473): No clastogenic effect.
octamethylcyclotetrasiloxane	Bacteria : No mutagenic components identified. Chromosomal aberration : No mutagenic components identified. In vitro gene mutations test on mammalian cells: : No mutagenic components identified.
acetic acid...%	Bacteria (OECD 471): No mutagenic effects. Chromosomal aberration (OECD 473): No clastogenic effect. (OECD 476)Inconclusive data
<b>In vivo:</b>	
<b>Product:</b>	Composition/information on ingredients
<b>Specified substance(s):</b> octamethylcyclotetrasiloxane	No effects expected.
acetic acid...%	(According to a standardised method.)Results obtained on a similar product.No mutagenic effects.
<b>Carcinogenicity:</b>	

**Product:** Composition/information on ingredients  
**Specified substance(s):**  
octamethylcyclotetrasiloxane Rat (, Female, Male, Inhalation): (OECD 453) No effects expected.

#### Reproductive toxicity:

**Product:** Composition/information on ingredients  
**Specified substance(s):**  
octamethylcyclotetrasiloxane Suspected of damaging fertility.

#### Reproductive toxicity

##### (Fertility):

**Product:** Composition/information on ingredients  
**Specified substance(s):**  
Methylsilanetriyl triacetate Rat Female, Male (Ingestion): NOAEL (parent):  $\geq 1\,000$  mg/kg  
NOAEL (F1):NOAEL (F2): Method: OECD 422  
  
octamethylcyclotetrasiloxane Fertility study 2 generations. Rat (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1):None. NOAEL (F2): None. Method: OECD 416

#### Developmental toxicity

##### (Teratogenicity):

**Product:** Composition/information on ingredients  
**Specified substance(s):**  
octamethylcyclotetrasiloxane Rat (Inhalation): NOAEL (terato):  $> 6,066$  mg/l NOAEL (mater): 3,640 mg/l Method: OECD 414  
  
acetic acid...% Rat (Ingestion): NOAEL (terato): 1 600 mg/kg NOAEL (mater): Method: According to a standardised method.

#### Specific Target Organ Toxicity - Single Exposure:

**Product:** No data available.

#### Specific Target Organ Toxicity - Repeated Exposure:

**Product:** Composition/information on ingredients  
**Specified substance(s):**  
Methylsilanetriyl triacetate Not classified

#### Aspiration Hazard:

**Product:** No data available.  
**Specified substance(s):**  
octamethylcyclotetrasiloxane No effects expected.

## SECTION 12: Ecological information

**General information:** Not applicable.

#### 12.1 Toxicity:

##### Acute toxicity:



**Fish:**

**Product:** Composition/information on ingredients

**Specified substance(s):**

Methylsilanetriyl triacetate LC 50 (96 h): > 100 mg/l Results obtained on a similar product.

octamethylcyclotetrasiloxane LC 50 (Oncorhynchus mykiss, 96 h): >= 0,022 mg/l

acetic acid...% LC 50 (Oncorhynchus mykiss, 96 h): > 1 000 mg/l

**Aquatic Invertebrates:**

**Product:** Composition/information on ingredients

**Specified substance(s):**

Methylsilanetriyl triacetate LC 50 (48 h): > 100 mg/l Results obtained on a similar product.

octamethylcyclotetrasiloxane EC 50 (Water flea (Daphnia magna), 48 h): > 0,015 mg/l

acetic acid...% EC 50 (Water flea (Daphnia magna), 48 h): > 1 000 mg/l

**Chronic Toxicity:**

**Fish:**

**Product:** Composition/information on ingredients

**Specified substance(s):**

octamethylcyclotetrasiloxane NOEC (Oncorhynchus mykiss, 93 d): >= 0,0044 mg/l

**Aquatic Invertebrates:**

**Product:** Composition/information on ingredients

**Specified substance(s):**

octamethylcyclotetrasiloxane NOEC (Water flea (Daphnia magna), 21 d): 0,015 mg/l

**Toxicity to Aquatic Plants:**

**Product:** Composition/information on ingredients

**Specified substance(s):**

Methylsilanetriyl triacetate EC 50 (96 h): 660 mg/l Results obtained on a similar product.

octamethylcyclotetrasiloxane EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 0,022 mg/l

acetic acid...% EC 50 (Alga, 72 h): > 1 000 mg/l  
NOEC (Alga, 72 h): 1 000 mg/l

**12.2 Persistence and Degradability:**

**Biodegradation:**

**Product:** Composition/information on ingredients

**Specified substance(s):**

Methylsilanetriyl triacetate 74 % (21 d, According to a standardised method.) Readily biodegradable Results obtained on a similar product.

octamethylcyclotetrasiloxane 3,7 % (29 d) The product is not considered to be readily biodegradable.

acetic acid...% 96 % (20 d) Readily biodegradable

**BOD/COD Ratio:**

**Product:** No data available.

### 12.3 Bioaccumulative potential:

**Product:** No data available.

**Specified substance(s):**

octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12 400

acetic acid...% Bioconcentration Factor (BCF): 3,16 (estimated)

**12.4 Mobility in soil:** No data available.

### 12.5 Results of PBT and vPvB assessment:

Composition/information on ingredients

octamethylcyclotetrasiloxane Inconclusive data REACH (1907/2006) Ax XIII

**12.6 Other adverse effects:** No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

**General information:** The user's attention is drawn to the possible existence of local regulations regarding disposal.

#### Disposal methods

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

**Contaminated Packaging:** Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

## SECTION 14: Transport information

This material is not subject to transport regulations.

**Other information:** No special precautions.

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

## SECTION 15: Regulatory information

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

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:**  
none

#### National Regulations

**Wassergefährdungs-  
klasse (WGK):** WGK 2: wassergefährdend.

**Technische Anleitung zur Reinhaltung der Luft (TA-Luft):**  
Octamethylcyclotetrasiloxane

**Water Hazard Class  
(WGK):** WGK 2: water-endangering.

**TA Luft, Technical Guidance Air:**  
Octamethylcyclotetrasiloxane

**15.2 Chemical safety  
assessment:** No Chemical Safety Assessment has been carried out.

#### Inventory Status:

Australia AICS:	On or in compliance with the inventory.
Canada DSL Inventory List:	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.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory.

#### SECTION 16: Other information

**Revision Information:** Not relevant.

#### References

PBT	PBT: persistent, bioaccumulative and toxic substance.
vPvB	vPvB: very persistent and very bioaccumulative substance.

#### Key abbreviations or acronyms used:

No data available.

**Key literature references and  
sources for data:** No data available.

#### Wording of the H-statements in section 2 and 3

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H413	May cause long lasting harmful effects to aquatic life.

**Training information:** No data available.

#### Classification according to Regulation (EC) No 1272/2008 as amended.

Eye Irrit. 2, H319

**Issue Date:** 13.02.2018

SDS\_DE - PRCO90000184

**SDS No.:****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.