

Material Safety data sheet - CAF Paste

- 1.1 Product identifier: **Product name: CAF PASTE**
 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 Supplier:**

Oxford Instruments NanoAnalysis
 Halifax Rd, High Wycombe HP12 3SE
 United Kingdom
 Tel: +44 (0) 1494 442255

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 damage Category 2 Causes serious eye irritation.
 Hazard summary: Physical Hazards: No specific recommendations.
 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.

2.2 Label Elements:

Signal Words: Warning
 Hazard Statement(s): Causes serious eye irritation.
 Precautionary Statement: Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Response: If eye irritation persists: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.
 INDEX
 No. acetic acid...% <2,6% 64-19-7 200-580-7

SECTION 3: Composition/information on ingredients

3.2 Mixtures: General information: Mixture of Polyorganosiloxanes, fillers, additives.
 Chemical name Concentration CAS-No. EC No. REACH
 Registration No. Notes Methylsilanetriyl triacetate <3% 4253-34-3
 acetic acid...% <1% 64-19-7 200-580-7 #
 octamethylcyclotetrasiloxane <1% 556-67-2 209-136-7 01-2119529238-36-0002
 * 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).
 PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.
 Classification: Chemical name Classification Notes
 Methylsilanetriyl triacetate DSD: C; R34 Xn; R22 CLP: Acute Tox. 4;H302, Skin Corr. 1C;H314
 acetic acid...% DSD: R10 C; R35 CLP: Flam. Liq. 3;H226, Skin Corr. 1A;H314 octamethylcyclotetrasiloxane DSD: R53 Repr. 3;
 R62 CLP: Repr. 2;H361f, Aquatic Chronic 4;H413, Flam. Liq. 3;H226
 DSD: Directive 67/548/EEC
 The full text for all R-phrases and 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.
 Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes. Skin Contact: Remove contaminated clothing and shoes. Wash with soap and water. 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.

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

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.

Notification Procedures: 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. Vulcanises 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.

7.3 Specific end use(s): No data available.

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...% 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)

8.2 Exposure controls:

Appropriate engineering controls: 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.

Individual protection measures, such as personal protective equipment:

General information: Provide sufficient ventilation during operations which cause vapor formation.

Eye/face protection: Safety Glasses Skin protection: Hand Protection: Rubber gloves are recommended.

Other: It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.

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

Hygiene measures: Provide eyewash station and safety shower. Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance: Physical state: Paste Form: Thixotropic Color: Creamy white

Odor: Vinegar. Odor Threshold: No data available. pH: Not applicable.

Melting Point: No data available. Boiling Point: No data available.

Flash Point: > 150 °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.

Relative density: 1,14 (20 °C) Approximate Solubility(ies): Solubility in Water: Practically Insoluble

Solubility (other): Acetone.: Practically Insoluble Ethanol.: Practically Insoluble Petrol.: Dispersible

White-spirit.: Dispersible Aromatic hydrocarbons.: Dispersible Chlorinated solvents.: Dispersible

Partition coefficient (n-octanol/water): No data available. Autoignition Temperature: No data available.

Decomposition Temperature: > 200 °C 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)

SECTION 10: Stability and reactivity

10.1 Reactivity: Vulcanises at room temperature on contact with moisture in the air.

10.2 Chemical Stability: Stable at room temperature provided it is not on contact with air.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: No other information noted.

10.5 Incompatible Materials: Strong oxidizing agents. Water.

10.6 Hazardous Decomposition

Products: 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 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: Product: Not classified for acute toxicity based on available data.

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

Inhalation: Product: Composition/information on ingredients

Specified substance(s): acetic acid...% LC 50 (Rat, 4 h): > 40 mg/l Vapor octamethylcyclotetrasiloxane

LC 50 (Rat, 4 h): > 36 mg/l Repeated dose toxicity: Product: Composition/information on ingredients

Specified substance(s): Methylsilanetriyl triacetate NOAEL (Rat(Female, Male), Oral): 50 mg/kg Results obtained on a similar product. NOAEL (Rat(Female, Male), Inhalation - vapor): 0,56 mg/l LOAEL (Rat(Female,

Male), Inhalation - vapor): 2,2 mg/l Results obtained on a similar product.

acetic acid...% NOAEL (Rat, Feed (Oral)): 290 mg/kg octamethylcyclotetrasiloxane

NOAEL (Rat, Inhalation, 24 months): 1,820 mg/l NOAEL (Rabbit, Dermal, 3 weeks): 960 mg/kg

Skin Corrosion/Irritation: Product: Test results Not irritating Results obtained on a similar product.

Serious Eye Damage/Eye Irritation: Product: Test results Irritant. Results obtained on a similar product.

Respiratory or Skin Sensitization: Product: Composition/information on ingredients

Specified substance(s): Methylsilanetriyl triacetate OECD 406 (Guinea Pig) : Not a skin sensitizer.

octamethylcyclotetrasiloxane Pig : Not a skin sensitizer. Germ Cell Mutagenicity:

In vitro: Product: Composition/information on ingredients

Specified substance(s): Methylsilanetriyl triacetate Bacteria (OECD 471): No mutagenic effects.

(OECD 476)No mutagenic effects.Results obtained on a similar product.

Chromosomal aberration (OECD 473): No clastogenic effect.

acetic acid...% Bacteria (OECD 471): No mutagenic effects. Chromosomal aberration (OECD 473): No clastogenic effect.

(OECD 476)Inconclusive data octamethylcyclotetrasiloxane

Bacteria : No mutagenic components identified. Chromosomal aberration : No mutagenic components identified.

In vivo: Product: No data available.

Specified substance(s): acetic acid...% (According to a standardised method.)Results obtained on a similar product.No

mutagenic effects. octamethylcyclotetrasiloxane

No mutagenic components identified. Carcinogenicity: Product: No data available.

Reproductive toxicity: Product: No data available (Fertility): Product: Composition/information on ingredients

Specified substance(s): Methylsilanetriyl triacetate Rat Female, Male (Ingestion): NOAEL (parent): >= 1 000 mg/kg NOAEL

(F1):NOAEL (F2): Method: OECD 422

Developmental toxicity (Teratogenicity): Product: Composition/information on ingredients Specified substance(s): 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.

SECTION 12: Ecological information

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.

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

octamethylcyclotetrasiloxane

LC 50 (Oncorhynchus mykiss, 96 h): >= 0,022 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.

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

octamethylcyclotetrasiloxane

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

SECTION 12: Ecological information continued....

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): 0,0079 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.

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

NOEC (Alga, 72 h): 1 000 mg/l octamethylcyclotetrasiloxane

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

12.2 Persistence and Degradability:

Biodegradation: Product: The product is not readily biodegradable.

BOD/COD Ratio: Product: No data available.

12.3 Bioaccumulative Potential: Product: The product is not bioaccumulating.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other Adverse Effects: No data available.

13.1 Waste treatment methods:

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

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 MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

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

National Regulations: 15.2 Chemical safety assessment:

No data available.

SECTION 16: Other information

Revision Information: Not relevant.

Key abbreviations or acronyms used: No data available.

Key literature references and sources for data:

No data available. Wording of the R-phrases and H-statements in section 2 and 3:

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H361f Suspected of damaging fertility.

H413 May cause long lasting harmful effects to aquatic life.

R10 Flammable.

R14 Reacts violently with water.

R22 Harmful if swallowed.

R34 Causes burns.

R35 Causes severe burns.

R53 May cause long-term adverse effects in the aquatic environment.

R62 Possible risk of impaired fertility.

Training information: No data available.

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10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: No other information noted.

10.5 Incompatible Materials: Strong oxidizing agents. Water.

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During use or in contact with water, may generate hazardous substances.

SECTION 11: Toxicological information

Information on likely routes of exposure Inhalation: No data available. Ingestion: No data available.

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

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

Inhalation: Product: Composition/information on ingredients

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LC 50 (Rat, 4 h): > 36 mg/l Repeated dose toxicity: Product: Composition/information on ingredients

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Serious Eye Damage/Eye Irritation: Product: Test results Irritant. Results obtained on a similar product.

Respiratory or Skin Sensitization: Product: Composition/information on ingredients

Specified substance(s): Methylsilanetriyl triacetate OECD 406 (Guinea Pig) : Not a skin sensitizer.

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In vitro: Product: Composition/information on ingredients

Specified substance(s): Methylsilanetriyl triacetate Bacteria (OECD 471): No mutagenic effects.

(OECD 476)No mutagenic effects.Results obtained on a similar product.

Chromosomal aberration (OECD 473): No clastogenic effect.

acetic acid...% Bacteria (OECD 471): No mutagenic effects. Chromosomal aberration (OECD 473): No clastogenic effect.

(OECD 476)Inconclusive data octamethylcyclotetrasiloxane

Bacteria : No mutagenic components identified. Chromosomal aberration : No mutagenic components identified.

In vivo: Product: No data available.

Specified substance(s): acetic acid...% (According to a standardised method.)Results obtained on a similar product.No mutagenic effects. octamethylcyclotetrasiloxane

No mutagenic components identified. Carcinogenicity: Product: No data available.

Reproductive toxicity: Product: No data available (Fertility): Product: Composition/information on ingredients

Specified substance(s): Methylsilanetriyl triacetate Rat Female, Male (Ingestion): NOAEL (parent): >= 1 000 mg/kg NOAEL (F1):NOAEL (F2): Method: OECD 422

Developmental toxicity (Teratogenicity): Product: Composition/information on ingredients Specified substance(s): 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.

SECTION 12: Ecological information

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.

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

octamethylcyclotetrasiloxane

LC 50 (Oncorhynchus mykiss, 96 h): >= 0,022 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.

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

octamethylcyclotetrasiloxane

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