

SAFETY DATA SHEET

CAF 4

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Date: 08/10/2003

Version: 2.04

Cancels and replaces version: 1.00

1 Product and company identification.

PRODUCT NAME : CAF 4

Use : (For further information, refer to the product technical data sheet).

SUPPLIER : Manufacturer :

Name : Rhodia Silicones s.a.s.

Address : 19, avenue G. Pompidou.
F-69486 LYON cedex 03.

Telephone number : +33 (0) 4 72 13 19 00

Telefax number : +33 (0) 4 72 13 19 88.

MANUFACTURING SITE

Factory : RHODIA SILICONES S.A.S.
Usine Silicones Rhône-Alpes.

Address : 1-55 rue des Frères PERRET.
F-69191 Saint Fons Cedex.

Telephone number : +33 (0) 4 72 73 74 75.

Telefax number : +33 (0) 4 72 73 75 99.

2 Composition / information on ingredients

>>> PREPARATION

Chemical nature : Mixture of polydimethylsiloxanes, silica and curing agents.

Components presenting hazards : Alkyltriacetoxysilanes (CAS: 4253-34-3 & 17689-77-9) : < 5 % -
EC Classification : C R 14-34 EC N° :224-221-9 & 241-677-4 (*)

>>>Further information : During use, acetic acid is released (CAS: 64-19-7).

3 Hazards identification

MOST IMPORTANT HAZARDS

Adverse human health effects : Slightly irritating to eyes, respiratory system and skin.

Environmental effects : Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

Physical and chemical hazards

- Fire or explosion

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	:	Combustible.
- Further hazards	:	On contact with humidity: irritating vapours are released.
Classification/Specific hazards	:	According to EC criteria, this product is not classified as a "hazardous preparation".
Further information	:	After drying, may stick to the skin.

4 First-aid measures

Inhalation	:	Quickly move the person away from the contaminated area. If irritation persists, consult a doctor.
Skin contact	:	Wipe off as much as possible (using a clean, soft, absorbent material). Wash immediately with plenty of soap and water.
Eye contact	:	Immediately rinse with water for a prolonged period whilst keeping the eyes wide open. If irritation persists, consult an eye specialist.
Ingestion	:	Consult a doctor if necessary.

5 Fire - fighting measures

Extinguishing media		
- Suitable	:	Carbon dioxide (CO ₂). Foam. Powders. Water spray.
- Not suitable	:	None to our knowledge. If there is a fire close by, use suitable extinguishing agents.
Specific hazards	:	Combustible. For further information, refer to section 10: "Stability and Reactivity".
Specific fire fighting methods	:	Cool down the containers/equipment exposed to heat with a water spray.
Protection of fire-fighters	:	Self-contained breathing apparatus.

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6 Accidental release measures

Personal precautions

- : Avoid contact with skin and eyes.
- Do not breathe vapours.
- Protective equipment:
For further information refer to section 8 "Exposure-controls/personal protection".
- Mechanically ventilate the spillage area.

Environmental precautions

- : This product does not present any particular risk for the environment.

Methods for cleaning up

- Recovery
 - : Recover the product by scraping with a spatula or a similar instrument.
 - Collect up the product and place it in a spare container: - suitably labelled.
 - tightly closed.
 - Neutralization
 - : Absorb residues with:
 - inert absorbent material.
 - Cleaning/Decontamination
 - : Decontaminate and wash the floor with:
 - an appropriate solvent. (cf. : § 9)
 - Then wash with plenty of water.
 - Disposal
 - : For disposal of solid materials refer to section 13 "Disposal considerations".
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7 Handling and storage

HANDLING

- Technical measures
 - : Ventilation.
- Measures
 - : Do not exceed the occupational exposure limits (OEL).
- Safe handling advice
 - : Comply with instructions for use (refer to technical sheet).
 - Work outside or in a well-ventilated room.

STORAGE

- Technical measures
 - : Does not require any specific or particular technical measures.
 - Storage conditions
 - Recommended
 - : Keep:
 - only in the original container
 - the container tightly closed and dry.
 - Incompatible products
 - : Strong oxidizing agents.
 - Packaging
 - : - Polyethylene liner in a metal drum varnished with epikote.
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Packaging materials

- Recommended : Polyethylene.
Coated metals.
 - Further information : The product polymerises on contact with air.
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8 Exposure controls / personal protection

- Engineering measures : Ensure good ventilation of the work station.
 - Control parameters
 - Occupational exposure limits
 - Limits (France) : Acetic acid : VLE : 25 mg/m³ (10 ppm).
 - Limits (U.S.A./A.C.G.I.H.) : Acetic acid : TLV (TWA) = 25 mg/m³ (10 ppm)
Acetic acid : TLV (STEL) = 37 mg/m³ (15 ppm)
 - Surveillance procedures : Measure the concentration in the atmosphere.
 - Personal protective equipment
 - Respiratory protection : In the event of insufficient ventilation:
Respiratory protective device with a gas filter.
 - Hand protection : Protective gloves made of rubber.
 - Eye protection : Safety spectacles.
 - Collective emergency equipment : Eye fountain.
-

9 Physical and chemical properties

APPEARANCE

- Physical state : Runny paste.
 - Form : viscous.
 - Colour : off-white.
 - Odour : of vinegar.
 - pH : Not applicable
 - Specific temperatures
 - Decomposition temperature : > 200°C.
 - Flammability characteristics
 - Flash point : > 150 ° C (Closed cup, according to method Afnor T 60103).
 - Oxidizing properties : Non oxidizing material according to EC criteria.
 - Specific gravity : Approx. 1130 kg/m³ at 25°C.
 - Solubility
 - in water : Practically insoluble.
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- in organic solvents : Insoluble in:
- acetone
- alcohol (ethanol)
Dispersible (partial solubilisation) in:
- petrol.
- white-spirit.
- aromatic hydrocarbons (toluene, xylene).
- chlorinated solvents.

Dynamic viscosity : approx. 200 Pa.s , at 25 °C.

10 Stability and reactivity.

Stability : Stable at room temperature provided it is not on contact with air.
Vulcanises at room temperature on contact with moisture in the air.

Hazardous reactions

- Conditions to avoid : No dangerous reactions known under normal conditions of use.
See technical data sheet.

- Hazardous decomposition products : During vulcanisation, acetic acid is released.
- Quantity potentially released : < 2 % of product weight.
On combustion forms:
(Carbon oxides (CO + CO₂)).
(Silica).

11 Toxicological information

Acute toxicity : (Acetic acid).
LC 50 inhalation (Mouse) / 1 h: 14 mg/l.
(Published data).

Local effects : Repeated or prolonged contact may cause slight irritation to the skin.
May cause slight temporary irritation to ocular mucous membranes.

Sensitisation : No information available.

Specific effects

- Mutagenicity : No information available.

Further information : At high concentrations, the vapours can be irritating to the respiratory system.

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12 Ecological information

MOBILITY

- Precipitation : Slightly soluble product, readily forms deposits.
Expected behaviour of the product : Ultimate destination of the product : SOIL and SEDIMENT.

BIODEGRADABILITY

- Ultimate aerobic biodegradability : Not biodegradable.

BIOACCUMULATION

- Bioconcentration factor. : Not bioaccumulable.

ECOTOXICITY

- Effects on the aquatic environment : Acetic acid:
EC 50 (Daphnia: Daphnia magna)/24 h: 150 mg/l.
LC 50 (Fish: Pimephales promelas) / 96h: 88 mg/l.
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13 Disposal considerations

WASTE FROM RESIDUES

- Destruction/Disposal : Dispose of at a licensed waste collection point.

CONTAMINATED PACKAGING

- Decontamination/cleaning : Separate the different packaging components and treat them separately:

- Destruction/Disposal : Incinerate plastic packaging at a licensed installation.
Entrust the uncontaminated packaging to a licensed waste contractor.
Following decontamination, re-use or recycle metal packaging.
Disposable containers:
Incinerate at a licensed installation.

- NOTE : The user's attention is drawn to the possible existence of local regulations regarding disposal.
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14 Transport information

INTERNATIONAL REGULATIONS

Land

- Rail/road (RID/ADR) : NOT restricted.

- Sea (IMO/IMDG) : NOT restricted.

- Air (ICAO-IATA) : NOT restricted.

OTHER REGULATIONS

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- France: Rail/road (RID/ADR) : NOT restricted.
NOTE : The above regulatory prescriptions are those valid on the date of publication of this sheet.
Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

15 Regulatory information

LABELLING

EC regulations : Mandatory labelling (self-classification) of hazardous preparations:
Not applicable.

- Additional phrases : Safety Data Sheet available on request for professional users (*)

NOTE : The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16 Other information

Uses

- Prohibited uses : This product is only intended for industrial use.

R Phrases of § 2 & 3 : R 14: Reacts violently with water. (*)
R 34: Causes burns. (*)

- European inventory (EINECS, ELINCS) : These polymers are not concerned by the EINECS inventory.
The corresponding monomers are registered in the EINECS inventory.
All the other constituents of this preparation are registered in the EINECS inventory.

- American inventory (TSCA) : All the components of this preparation are registered in the TSCA inventory.

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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility.