

SAFETY DATA SHEET

CAF 4

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Date/Revision: 14/07/2009

Version: 4.01 UK

Cancels and replaces version: 3.00 UK

1 Product and company identification.

PRODUCT NAME : CAF 4
Use : Used for making joints, sealing and gluing. [*]
(For further information, refer to the product technical data sheet).

SUPPLIER : Manufacturer :
Name : BLUESTAR SILICONES FRANCE S.A.S
Address : 21, Avenue Georges 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 : BLUESTAR SILICONES FRANCE S.A.S
Usine Silicones Rhône-Alpes
Address : 1-55 rue des Frères PERRET
F-69192 Saint Fons Cedex [*]
Telephone number : +33 (0) 4 72 73 74 75
Telefax number : +33 (0) 4 72 73 75 99
E-mail : Information.FDS@eu.rhodia.com

EMERGENCY TELEPHONE NUMBER : 00 44 1865 407 333 (UK : 01865 407 333)

2 Hazards identification

MOST IMPORTANT HAZARDS

Adverse human health effects : Repeated or prolonged contact with skin may cause irritation.
Slightly irritating to eyes and respiratory system. [*]

Physical and chemical hazards
- Fire or explosion : Combustible.

Specific hazards : According to EC criteria, this preparation is classified as :
- HARMFUL.
[*]

Further information : After drying, may stick to the skin.

During use, releases:
Acetic acid(CAS : 64-19-7)- EC Classification : R10 - R35(19 N)§EC N° :200-580-7
1-Butanol(CAS : 71-36-3)- EC Classification : R10 - Xn;R22 - Xi;
R37/38 - R41 - R67EC N° :200-751-6
[*]

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3 Composition / information on ingredients

>> PREPARATION

- Chemical nature : Mixture of polydimethylsiloxanes, silica and curing agents.
- Components contributing to the hazard : None.
- Components presenting hazards : Silanetriol, ethyl-, triacetate (CAS : 17689-77-9) : < 2 % -
Self-classification : R14 - Xn; R22 - C; R34 - EC N° :241-677-4
Silanetriol, methyl-, triacetate (CAS : 4253-34-3) : < 2 % -
Self-classification : R14 - Xn; R22 - C; R34 - EC N° :224-221-9
1-Butanol(CAS : 71-36-3) : <0.00005%- EC Classification : R10 -
Xn; R22 - Xi; R37/38 - R41 - R67EC N° :200-751-6
Quartz (SiO₂)(CAS : 14808-60-7) : <25%- Self-classification : Xn;
R48/20EC N° :238-878-4
[*]
- >>Further information : § : (N) : New entry in the Adaptation to Technical Progres of
Annexe I of Directive 67/548/EEC.

The various components and fillers are incorporated in the bulk of the polymer. [*]

4 First-aid measures

- Inhalation : Quickly move the person away from the contaminated area.
Make the affected person rest.
If necessary seek medical advice.
Show this sheet to the doctor.
[*]
- Skin contact : Remove all contaminated clothing and footwear.
Wash with soap and water.
In case of inflammation (redness, irritation, ...) obtain medical attention.
Show this sheet to the doctor.
- Eye contact : Rinse with running water whilst keeping the eyes wide open. (at least 15 minutes).
- Ingestion : NEVER attempt to induce vomiting. Rinse mouth out with water.
- Further information : Place contaminated clothing in a sealed bag for disposal. Use appropriate protective equipment when treating a contaminated person.
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5 Fire - fighting measures

Extinguishing media

- Suitable : Carbon dioxide (CO2)
Foam
Powders
 - Not suitable : Water.
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.
-

6 Accidental release measures

- Personal precautions : Avoid contact with skin and eyes.
Do not breathe vapours.
Protective equipment:
 - appropriate gloves.
 - safety glasses.For further information refer to section 8 "Exposure-controls/personal protection".
【*】
Mechanically ventilate the spillage area.
 - Environmental precautions : Do NOT discharge into drains or rivers.
For a large spillage, contain the spillage by bunding. 【*】
 - Methods for cleaning up
 - Recovery : Scrape up the product with a spatula or similar instrument

Collect up the product and place it in a spare container:
 - suitably labelled.
 - tightly closed.
 - Neutralization : Absorb residues with:
 - dry sand or dry inert absorbent. 【*】
 - 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".
Incinerate contaminated materials at an authorized installation.
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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 : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. [*]
- Storage conditions
- Recommended : Keep:
- only in the original container
- the container tightly closed and dry.
- Incompatible products : Strong oxidizing agents.
Refer to the detailed list of incompatible materials (section 10 "Stability/Reactivity"). [*]
- Packaging : - Polyethylene liner in a metal drum varnished with epikote.
- Packaging materials
- Recommended : Polyethylene.
Coated metals.
- Not suitable : Materials other than those recommended.
Uncoated metals.
[*]
- Further information : The product polymerises on contact with air.
-

8 Exposure controls / personal protection

- Engineering measures : Ensure good ventilation of the work station.
- Control parameters
- Exposure limit values (Human Health)
- Occupational exposure limit values (France) : Acetic acid :VLE: 25 mg/m³ (10 ppm)
1-Butanol:VLE: 150 mg/m³ (50 ppm)
[*]
- ACGIH Threshold Limit Values (U.S.A./A.C.G.I.H.) : Acetic acid :
TLV (TWA) : 25 mg/m³ (10 ppm).
TLV (STEL) : 37 mg/m³ (15 ppm).

1-Butanol:TLV (TWA) : 20 ppm
[*]
- Limits (UK) : No specific limits.
- Surveillance procedures : Monitor the atmosphere at regular intervals. [*]
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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.
Protective gloves must be chosen according to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required. [*]
 - Eye protection : Safety spectacles with side shields. [*]
 - Collective emergency equipment : Eye fountain.
Safety shower. [*]
-

9 Physical and chemical properties

APPEARANCE

- Physical state : Runny paste.
 - Form : viscous.
 - Colour : off-white.
 - Odour : of vinegar.
 - pH : Not applicable (insoluble product)
 - Specific temperatures
 - Flammability characteristics
 - Flash point : 150 °C (No method specified).
 - Oxidizing properties : According to the data on the components : Not considered as oxidizing. (evaluation by structure-activity relationship)
 - Specific gravity : Approx. 1130 kg/m³ at 25°C.
 - Solubility
 - in water : Practically insoluble.
 - 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.
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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.
- Materials to avoid : Reacts with:
- strong oxidizing agents.
- water. [*]
- Hazardous decomposition products : During use, releases:
Acetic acid(Quantity potentially released : <2 % of product weight).
1-Butanol(Quantity potentially released : <0.002 % of product weight).
- On combustion forms:
(Carbon oxides (CO + CO₂)).
amorphous silica
[*]
-

11 Toxicological information

- Acute toxicity : Not classified as harmful by inhalation
Not classified as harmful by contact with skin
Not classified as harmful if swallowed
(by calculation according to the conventional method)
(internal evaluation)
- Local effects : May be irritating to the respiratory system. (At high vapour concentrations). [*]
Repeated or prolonged contact may cause slight irritation to the skin. [*]
May cause slight temporary irritation to ocular mucous membranes. [*]
Not classified as irritating to skin and eyes
(by calculation according to the conventional method)
(internal evaluation)
- Sensitisation : Not classified as sensitising by skin contact
(by calculation according to the conventional method)
(internal evaluation)
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Repeated dose toxicity : Not considered to cause serious damage to health on repeated exposure by inhalation [*]

Specific effects

- Mutagenicity : Data available only for some components : No genotoxic potential was observed in tests performed on the components of the preparation.

12 Ecological information

MOBILITY

Expected behaviour of the product : Ultimate destination of the product : SOIL and SEDIMENT.

BIODEGRADABILITY

- Ultimate aerobic biodegradability : Inorganic part : Not applicable
Silicone component : By analogy : To be considered to be : Not biodegradable. (Published data). [*]

BIOACCUMULATION

Bioconcentration factor. : Inorganic part : Not applicable
Silicone component : By analogy : To be considered to be : Not bioaccumulable. (Published data). [*]

ECOTOXICITY

Effects on the aquatic environment : According to the data on the components : NOT considered to be : Harmful to aquatic organisms. (internal evaluation)

Further information : Not classified as Dangerous for the Environment, according to EC criteria. (by calculation according to the conventional method)

13 Disposal considerations

RESIDUES FROM PRODUCT

Prohibition : Discharging waste into rivers and drains is forbidden. [*]

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

- United Kingdom: Rail/road : 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 of preparations not classified as hazardous : APPLICABLE**
- Identification of the hazardous product : Not applicable.
- R phrases : No R phrases.
- S phrases : No S phrases.
- Additional phrases : Safety Data Sheet available on request for professional users
Although classified according to EC criteria (calculated by the conventional method), this product is exempt from labelling according to article 9.3 of Annex 6 of Directive 67/548/CEE, 28th ATP. [*]

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.

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16 Other information

Uses

- Prohibited uses : This product is only intended for industrial use.
- Registration numbers : The polymers are not listed in the EINECS inventory.
The monomers corresponding to the polymer(s) in this preparation are registered in the EINECS inventory
All the other constituents of this preparation are registered in the EINECS inventory.
All the components of this preparation are registered in the TSCA inventory.
Registered on the AICS inventory.
Registered in the Canadian inventory (CEPA DSL).
Registered in the Chinese inventory
Registered in the Korean inventory.
Registered in the New Zealand inventory (NZIoC)
Registered in the Philippine inventory (PICCS)
[*]
- R Phrases of § 2 & 3 : R 10 : Flammable.
R 14 : Reacts violently with water.
R 22 : Harmful if swallowed.
R 34: Causes burns.
R 35: Causes severe burns.
R 37/38: Irritating to respiratory system and skin.
R 41: Risk of serious damage to eyes.
R 48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R 67: Vapours may cause drowsiness and dizziness.
[*]
- * Update : This sheet was updated (refer to the date at the top of this page).
Subheadings and text which have been modified since the previous version are indicated with an asterisk (*).

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.