



SAFETY DATA SHEET

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

Product identifier:

Product name: SILBIONE DISPERSION CAF 70004

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

Identified uses: Non-stick coating. Contact with food products.

Uses advised against: None known.

Details of the supplier of the safety data sheet:

Manufacturer:

BLUESTAR SILICONES Usines Rhône-Alpes
1-55 rue des Frères PERRET
F-69 192 SAINT FONTS Cedex

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

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

e-mail: fds.sil@bluestarsilicones.com

Supplier:

Bluestar 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

Emergency telephone number: +49 (0) 451 6 09 81-27

SECTION 2: Hazards identification

Classification of the substance or mixture:

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

Classification according to Directive 67/548/EEC or 1999/45/EC as amended:

F; R11 Xi; R38 Xn; R48/20 Xn; R65 R67 N; R50/53

Hazard summary:

Physical hazards: Highly flammable.

Health hazards:

Inhalation: Quartz : When encapsulated in polymer, it is not expected to pose a health hazard when processed under normal conditions of use. Vapors may cause drowsiness and dizziness.

Eye contact: No specific symptoms noted.

Skin contact: May be slightly irritating.

Ingestion: Harmful: may cause lung damage if swallowed.

Other Health Effects: No other information noted.

Environmental hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements:

Contains: cyclohexane



Dangerous for the environment



Highly Flammable



Harmful

- | | |
|--------|---|
| R11 | Highly flammable. |
| R38 | Irritating to skin. |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| R65 | Harmful: may cause lung damage if swallowed. |
| R67 | Vapours may cause drowsiness and dizziness. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S9 | Keep container in a well-ventilated place. |
| S16 | Keep away from sources of ignition - No smoking. |
| S25 | Avoid contact with eyes. |
| S33 | Take precautionary measures against static discharges. |
| S37 | Wear suitable gloves. |
| S51 | Use only in well-ventilated areas. |
| S52 | Not recommended for interior use on large surface areas. |
| S60 | This material and its container must be disposed of as hazardous waste. |
| S61 | Avoid release to the environment. Refer to special instructions/safety data sheets. |
| S62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

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...%	<1,5%	64-19-7	200-580-7		#

SECTION 3: Composition/information on ingredients

Mixtures:

General information: Mixture of Polyorganosiloxanes, fillers, additives.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
cyclohexane	<30%	110-82-7	203-806-2		#
Quartz (SiO ₂)	<20%	14808-60-7			#
acetic acid...%	<0,1%	64-19-7	200-580-7		#

* 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
cyclohexane	DPD:	F; R11 Xi; R38 Xn; R65 R67 N; R50/53	
	CLP:	Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic Acute 1;H400, Aquatic Chronic 1;H410	
Quartz (SiO ₂)	DPD:	Xn; R48/20	
	CLP:	STOT RE 1;H372	
acetic acid...%	DPD:	R10 C; R35	
	CLP:	Flam. Liq. 3;H226, Skin Corr. 1A;H314	

DPD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.:

The full text for all R/H-phrases 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.
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.
Most important symptoms and effects, both acute and delayed:	None known.
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.
Extinguishing media:	
Suitable extinguishing media:	Extinguish with foam, carbon dioxide or dry powder.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture:	Highly flammable.
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

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions:

Do not discharge into drains, water courses or onto the ground. Collect spillage. For a large spillage, contain the spillage by bunding.

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 MSDS.

SECTION 7: Handling and storage:

Precautions for safe handling:

Use explosion-proof electrical/ventilating/lighting/equipment. Ground container and transfer equipment to eliminate static electric sparks. Open container carefully and only in a dry, oxygen-free or inert atmosphere. Avoid forming spray/aerosol mists. Adequate ventilation should be provided so that exposure limits are not exceeded. Do not mix with Incompatible materials. For further information, refer to section 10: "Stability and Reactivity".

Conditions for safe storage, including any incompatibilities:

Avoid discharge into drains, water courses or onto the ground. Store in original tightly closed container. equipped with a degassing device. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Nitrogen blanketing of containers is required. Store separated from: Incompatible materials. Suitable containers: Steel drums coated with epoxy-resin.

Specific end use(s):

No data available.

SECTION 8: Exposure controls/personal protection

Control parameters:

Occupational exposure limits:

Quartz : When encapsulated in polymer, it is not expected to pose a health hazard when processed under normal conditions of use.

Chemical name	Type	Exposure Limit values	Source
cyclohexane	TWA	200 ppm 700 mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU (12 2009)
	STEL	800 ppm 2 800 mg/m3	Switzerland. SUVA Grenzwerte am Arbeitsplatz (2009)
	TWA	200 ppm 700 mg/m3	Switzerland. SUVA Grenzwerte am Arbeitsplatz (2009)

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)
	STEL	20 ppm 50 mg/m3	Switzerland. SUVA Grenzwerte am Arbeitsplatz (2009)
	TWA	10 ppm 25 mg/m3	Switzerland. SUVA Grenzwerte am Arbeitsplatz (2009)

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. Get medical advice/attention.

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: Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory Protection: If ventilation is insufficient, suitable respiratory protection must be provided. Self-contained breathing apparatus.

Hygiene measures: Provide eyewash station and safety shower.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties:

Appearance:

Physical State: Liquid

Form: Viscous.

Color: White

Odor: Sharp, Pungent

Odor Threshold: No data available.

pH: Not applicable

Freezing point: No data available.

Boiling Point: 81 °C

Flash Point: -22 °C (Closed cup according to method Afnor T 60103.)

Evaporation Rate: No data available.

Flammability (solid, gas): No data available.

Flammability Limit - Upper (%)-: 8,4 %(V) Cyclohexane.

Flammability Limit - Lower (%)-: 1,3 %(V) Cyclohexane.

Vapor pressure: 350 hPa (50 °C)

Vapor density (air=1): No data available.

Relative density: 1,02 (20 °C) Approximate

Solubility(ies):

Solubility in Water: Very slightly soluble.

Solubility (other): Acetone.: Very slightly soluble.
Ethanol.: Very slightly soluble.
Aliphatic hydrocarbons.: Miscible (in all proportions).
Aromatic hydrocarbons.: Miscible (in all proportions).
Chlorinated solvents.: Miscible (in all proportions).

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

Autoignition Temperature: 245 °C Cyclohexane.

Decomposition Temperature: No data available.

Viscosity: Approximate 7 000 mm²/s (25 °C)

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

Reactivity: No other information noted.

Chemical stability: Stable

Possibility of hazardous reactions: No data available.

Conditions to avoid: No other information noted.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

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.

Information on toxicological effects:

Acute Toxicity:

Oral:

Product: No data available.

Specified substance(s):

cyclohexane LD 50 (Mouse): 1 300 mg/kg
LD 50 (Rat): 29 820 mg/kg
Quartz (SiO₂) No data available.
acetic acid...% LD 50 (Rat): 3 310 - 3 530 mg/kg

Dermal:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% LD 50 (Rabbit): 1 060 mg/kg

Inhalation:

Product: No data available.

Specified substance(s):

cyclohexane NOEL (Monkey, 6 h): 1 243 mg/l 6 hr/day for 50 days
Quartz (SiO₂) No data available.
acetic acid...% LC 50 (Rat, 4 h): 11,4 mg/l

Repeated dose toxicity:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Skin corrosion/irritation:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Serious eye damage/eye irritation:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% Eye irritation has been noted at a concentration below 10 ppm.

Respiratory or skin sensitization:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Germ cell mutagenicity:

In vitro:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

In vivo:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Carcinogenicity:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Reproductive toxicity:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Reproductive toxicity(Fertility):

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Developmental

Toxicity (Teratogenicity):

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Specific target organ toxicity - single exposure:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Specific target organ toxicity - repeated exposure:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Aspiration hazard:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Other adverse effects:

SECTION 12: Ecological information

Toxicity:

Acute toxicity:

Fish:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% LC 50 (Oncorhynchus mykiss, 96 h): > 300,82 mg/l

Aquatic invertebrates:

Product: No data available.

Specified substance(s):

cyclohexane EC 50 (Water flea (Daphnia magna), 48 h): 0,9 mg/l
Quartz (SiO₂) No data available.
acetic acid...% EC 50 (Water flea (Daphnia magna), 48 h): 300,82 mg/l

Chronic Toxicity:

Fish:

Product: No data available.

Specified substance(s):

cyclohexane No data available.
Quartz (SiO₂) No data available.
acetic acid...% No data available.

Aquatic invertebrates:

Product: No data available.

Specified substance(s):

cyclohexane	No data available.
Quartz (SiO ₂)	No data available.
acetic acid...%	No data available.

Toxicity to Aquatic Plants:

Product: No data available.

Specified substance(s):

cyclohexane	No data available.
Quartz (SiO ₂)	No data available.
acetic acid...%	No data available.

Persistence and degradability:

Biodegradation:

Product: No data available.

Specified substance(s):

cyclohexane	The product is expected to be biodegradable.
Quartz (SiO ₂)	No data available.
acetic acid...%	No data available.

BOD/COD ratio:

Product: No data available.

Specified substance(s):

cyclohexane	No data available.
Quartz (SiO ₂)	No data available.
acetic acid...%	No data available.

Bioaccumulative potential:

Product: No data available.

Specified substance(s):

cyclohexane	Bioconcentration factor (BCF): 129 Has the potential to bioaccumulate.
Quartz (SiO ₂)	No data available.
acetic acid...%	No data available.

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments:

cyclohexane	No data available.
Quartz (SiO ₂)	No data available.
acetic acid...%	No data available.

Results of PBT and vPvB assessment:

No data available.

cyclohexane	No data available.
Quartz (SiO ₂)	No data available.
acetic acid...%	No data available.

Other adverse effects:

No data available.

SECTION 13: Disposal considerations

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.

European Waste Codes:

SECTION 14: Transport information

ADR/RID

UN number: UN 1263
UN proper shipping name: PAINT RELATED MATERIAL
Transport hazard class(es): 3
Tunnel restriction code: (D/E)
Packing group: III
Label: 3
Hazard No. (ADR) 30

IMDG

UN number: UN 1263
UN proper shipping name: PAINT RELATED MATERIAL
Transport hazard class(es): 3
Subsidiary risk label:
Packing group: III
Label: 3
Marine Pollutant: Marine pollutant
EmS No.: F-E; S-E

IATA

UN number: UN 1263
UN proper shipping name: PAINT RELATED MATERIAL
Transport hazard class(es): 3
Subsidiary risk label:
Packing group: III
Label: 3

Environmental hazards: Dangerous for the environment.

Special precautions for user: No special precautions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

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

National Regulations:

Chemical safety assessment: No data available.

SECTION 16: Other information

Revision Information: Not relevant.

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

Wording of the R-phrases and H-statements in section 2 and 3:

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R35	Causes severe burns.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

Training information: No data available.

Inventory Status

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
Japan (ENCS) List:	Not 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

Issue date: 27.05.2013

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.