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: SILBIONE DISPERSION CAF 70004 **Product No.:** PRCO90000842

1.2 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.

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 Siliconi Italia Srl
via Archimede, 602
I-21042 Caronno Pertusella

Telephone: +39 (02) 964 141
Fax: +39 (02) 96450209

1.4 Emergency telephone number: CHEMTREC Italy (24h) : +(39)-0245557031

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.

Physical Hazards		
Flammable liquids	Category 2	H225: Highly flammable liquid and vapour.
Health Hazards		
Skin irritation	Category 2	H315: Causes skin irritation.
Specific Target Organ Toxicity - Single Exposure	Category 3	H336: May cause drowsiness or dizziness.
Specific Target Organ Toxicity - Repeated Exposure	Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Environmental Hazards		
Acute hazards to the aquatic environment	Category 1	H400: Very toxic to aquatic life.
Chronic hazards to the aquatic environment	Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label Elements

Contains: Cyclohexane

Signal Word: Danger

Hazard Statement(s):
H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P350: IF ON SKIN: Wash with plenty of soap and water.

Disposal:
P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard summary

Physical Hazards: Highly flammable.

Health Hazards

Inhalation:
Quartz/cristobalite : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.Although classified according to EC criteria, this product is exempt from labelling according to article 23 and Annex 1 (section 1.3.4.1) of regulation (CE) n°1272/2008.
Vapors may cause drowsiness and dizziness.

Eye contact: No specific symptoms noted.

Skin Contact: Causes skin irritation.

Ingestion: No specific symptoms noted.

Other Health Effects: No other information noted.

Environmental Hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic 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	<1,5%	64-19-7		No data available.	#

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.	M-Factor:	Notes
Cyclohexane	25 - <50%	110-82-7	203-806-2	No data available.	No data available.	#
Quartz (SiO2)	10 - <20%	14808-60-7	238-878-4	No data available.	No data available.	#
Octamethylcyclotetrasiloxane	0,1 - <1%	556-67-2	209-136-7	01-2119529238-36-0002	No data available.	#
Acetic acid	0 - <0,1%	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
Cyclohexane	Flam. Liq. 2 H225; Asp. Tox. 1 H304; Skin Irrit. 2 H315; STOT SE 3 H336; Aquatic Acute 1 H400; Aquatic Chronic 1 H410;	No data available.
Quartz (SiO2)	STOT RE 1 H372;	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 jet as an extinguisher, as this will spread the fire.
5.2 Special hazards arising from the substance or mixture:	Highly flammable.
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. See Section 8 of the SDS for Personal Protective Equipment.
6.1.2 For emergency responders:	No data available.
6.2 Environmental Precautions:	Do not discharge into drains, water courses or onto the ground. Collect spillage. For a large spillage, contain the spillage by bunding.
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: Use explosion-proof [electrical/ventilating/lighting/…] equipment. Ground container and transfer equipment to eliminate static electric sparks. Use mechanical ventilation in case of handling which causes formation of vapors. Do not mix with incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.

7.2 Conditions for safe storage, including any incompatibilities: 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. Suitable containers: polyethylene. 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

Quartz/cristobalite : When encapsulated in a polymer, 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, 2017/164/EU (12 2009)
	TWA	100 ppm	350 mg/m3	Italy. Occupational Exposure Limits (2009)
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, 2017/164/EU (12 2009)
	TWA	10 ppm	25 mg/m3	Italy. Occupational Exposure Limits (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. 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: Material: 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

9.1 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.
Density:	Approximate 1,02 kg/dm3 (20 °C)
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)

9.2 Other information: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No other information noted.
10.2 Chemical Stability:	Stable.
10.3 Possibility of hazardous reactions:	Will not occur.
10.4 Conditions to avoid:	No other information noted.
10.5 Incompatible Materials:	Strong oxidizing agents.

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: Not classified for acute toxicity based on available data.

Repeated dose toxicity:
Product: Composition/information on ingredients
Specified substance(s):

cyclohexane	NOAEL (Mouse): 6,88 mg/l
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.

Skin Corrosion/Irritation:
Product: Causes skin irritation.

Serious Eye Damage/Eye Irritation:
Product: No data available.

Specified substance(s):

cyclohexane	OECD 405 (Rabbit) : Slightly irritating.
octamethylcyclotetrasiloxane	Rabbit, 24 h : Not irritating
acetic acid...%	Corrosive.

Respiratory or Skin Sensitization:

Product:	Composition/information on ingredients
Specified substance(s):	
cyclohexane	OECD 406 (Guinea Pig) : Not a skin sensitizer.
octamethylcyclotetrasiloxane	Guinea Pig : Not a skin sensitizer.

Germ Cell Mutagenicity:

In vitro:

Product:	Composition/information on ingredients
Specified substance(s):	
cyclohexane	Bacteria (OECD 471): No mutagenic effects.
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

In vivo:

Product:	Composition/information on ingredients
Specified substance(s):	
cyclohexane	Chromosomal aberration (OECD 475): No mutagenic effects.
octamethylcyclotetrasiloxane	No effects expected.
acetic acid...%	(According to a standardised method.)Results obtained on a similar product.No mutagenic effects.

Carcinogenicity:

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):	
cyclohexane	Rat (Inhalation - vapor): NOAEL (parent): 24,08 mg/l NOAEL (F1):24,08 mg/l NOAEL (F2): 24,08 mg/l Method: OECD 416
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):	
cyclohexane	Rat (Inhalation - vapor): NOAEL (terato): 24,08 mg/l NOAEL (mater): 1,72 - 6,88 mg/l Method: OECD 414
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:	May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure:

Product:	Composition/information on ingredients
Specified substance(s):	
cyclohexane	Not classified

Aspiration Hazard:

Product:	No data available.
Specified substance(s):	
cyclohexane	May be fatal if swallowed and enters airways.
octamethylcyclotetrasiloxane	No effects expected.

SECTION 12: Ecological information

12.1 Toxicity:

Acute toxicity:

Fish:

Product:	Composition/information on ingredients
Specified substance(s):	
cyclohexane	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 4,53 mg/l
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):	
cyclohexane	EC 50 (Water flea (Daphnia magna), 48 h): 0,9 mg/l
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):	
cyclohexane	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 4,425 mg/l NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 0,925 mg/l
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):	
cyclohexane	77 % (28 d, OECD 301 F) Readily biodegradable
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):	
cyclohexane	Bioconcentration Factor (BCF): 167 (estimated) QSAR
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

ADR

14.1 UN Number:	UN 1263
14.2 Proper Shipping Name:	PAINT RELATED MATERIAL
14.3 Transport Hazard Class(es)	
Class:	3
Label(s):	3
Hazard No. (ADR):	33
Tunnel restriction code:	(D/E)
14.4 Packing Group:	II
14.5 Environmental hazards:	Dangerous for the environment.
14.6 Special precautions for user:	–

IMDG

14.1 UN Number:	UN 1263
14.2 Proper Shipping Name:	PAINT RELATED MATERIAL
14.3 Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-E
14.4 Packing Group:	II
14.5 Environmental hazards:	Marine pollutant
14.6 Special precautions for user:	–

IATA

14.1 UN Number:	UN 1263
14.2 Proper Shipping Name:	PAINT RELATED MATERIAL
14.3 Transport Hazard Class(es):	
Class:	3
Label(s):	3
14.4 Packing Group:	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user:	–
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

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

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.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H361f	Suspected of damaging fertility.
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.
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.

Flam. Liq. 2, H225
Skin Irrit. 2, H315
STOT SE 3, H336
STOT RE 1, H372
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

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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.