SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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
UFI: 8TH1-K0J3-S006-MNEQ

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-69192 SAINT FONS Cedex
FRANCE

Telephone: +33 (0) 4 72 73 74 75
Fax: +33 (0) 4 72 73 75 99

E-mail: fds.sil@elkem.com

Supplier:
Elkem Silicones Germany GmbH
Hans-Sachs-Strasse 4a
D-23566 Lübeck
GERMANY

Telephone: +49 (0) 451 6 09 81-27

1.4 Emergency telephone number: CHEMTREC Switzerland (24h/24): +41 435082011 / National Poison Centre: 145

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 vapor.

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

Hazard pictograms:



Signal Word: Danger

Hazard statements:
H225: Highly flammable liquid and vapor.
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+P352: 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.

UFI: 8TH1-K0J3-S006-MNEQ

2.3 Other hazards:

Physical Hazards: Highly flammable.

Health Hazards:

Inhalation:
Vapors may cause drowsiness and dizziness. 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.

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 life with long lasting effects.

Results of PBT and vPvB assessment: This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Endocrine Disruption - Health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine Disruption - Environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other hazards: No other information noted.

Substance(s) formed under the conditions of use:

Chemical name	Concentration*	CAS-No.	EC No.	Classification
acetic acid ... %	<1,5%	64-19-7	200-580-7	Flam. Liq. 3 H226; Skin Corr. 1A H314;

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16.

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

General information:
Mixture of Polyorganosiloxanes, fillers, additives.

Hazardous Component(s):

Chemical name	Concentration*	Type	CAS-No.	EC No.	REACH Registration No.	Notes
cyclohexane	25 - <50%	Component	110-82-7	203-806-2	01-2119463273-41-XXXX	#
Quartz (SiO2)	10 - <20%	Component	14808-60-7	238-878-4	Exempt	#
octamethylcyclotetrasiloxane; [D4]	0,01 - <0,079%	Impurities	556-67-2	209-136-7	Not relevant.	# ## PBT, vPvB

* 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).
This substance is listed as SVHC.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
ED: Endocrine Disruptor

Classification:

Chemical name	Classification	Specific concentration limit: / ATE / M-Factor:	Notes
cyclohexane	Flam. Liq. 2 H225; Asp. Tox. 1 H304; STOT SE 3 H336; Skin Irrit. 2 H315; Aquatic Acute 1 H400; Aquatic Chronic 1 H410;		
Quartz (SiO2)	STOT RE 1 H372;		
octamethylcyclotetrasiloxane; [D4]	Flam. Liq. 3 H226; Repr. 2 H361f; Aquatic Chronic 1 H410;	Aquatic Toxicity (Chronic): 10	

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information:
Move into fresh air and keep at rest. Take off contaminated clothing and wash it before reuse. Get medical attention immediately.

4.1 Description of first aid measures:

Inhalation:
In case of inhalation: Move person into fresh air and keep at rest. Get medical attention immediately. If breathing is difficult, trained personnel should give oxygen. If breathing stops, provide artificial respiration.

Skin Contact:
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin with soap and water. Get medical attention immediately. Contaminated clothing to be placed in closed container until disposal or decontamination. Wash contaminated clothing before reuse.

Eye Contact:
In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Remove any contact lenses after the initial 1-2 minutes of flushing and after advice from the attending physician. Continue flushing for several additional minutes. Open eyes wide apart. Get medical attention immediately, preferably an ophtalmologist.

Ingestion:
Do not induce vomiting. Rinse mouth thoroughly with water. Do not give victim anything to drink if he is unconscious. Get medical attention immediately.
Immediately call a POISON CENTER/doctor.

Personal Protection for First-aid Responders:
First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). Refer to sections 5 and 8 for information on emergency procedures and protective equipment.

4.2 Most important symptoms and effects, both acute and delayed:

Any important symptoms and effects are described in Section 11 (Toxicological information) of this SDS. Due to the irritant properties of this product, ingestion may lead to burning or ulcers in the mouth, stomach and gastrointestinal tract, followed by stenosis. Most important symptoms/effects: Respiratory discomfort, Burning, Itching.

4.3 Indication of any immediate medical attention and special treatment needed:

Notes to the physician:
No specific recommendations. Show this Safety Data Sheet to the attending physician.

SECTION 5: Firefighting measures

General Fire Hazards:
Material whose physical characteristics induce a risk of fire in contact with a source of ignition.
Vapors may travel considerable distance to a source of ignition and flash back. Containers may explode (due to the build-up of pressure) when exposed to extreme heat.

5.1 Extinguishing media:

Suitable extinguishing media:
Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media:
Do not use water jet as an extinguisher, as this will spread the fire.
For further information, refer to section 10: "Stability and Reactivity".

5.2 Special hazards arising from the substance or mixture:

Product will burn under fire conditions. Thermal decomposition or combustion may liberate carbon oxides, silicon oxides and other toxic gases or vapors.

5.3 Advice for firefighters:

Special fire-fighting procedures:
Use standard firefighting procedures and consider the hazards of other involved materials. Remove undamaged containers from fire area if it is safe to do so. Evacuate to a safe location and contact the emergency services. Water spray should be used to cool containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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:

Personnel not required or not equipped with personal protection should be evacuated from the area. Caution: Contaminated surfaces may be slippery. Follow safe handling advice and personal protective equipment recommendations. Avoid contact with eyes, skin, and clothing. Provide good ventilation. Avoid inhalation of vapors, mists or dusts. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all possible sources of ignition in the surrounding area. Avoid sparks, flames, heat and smoking. Prevent further leakage or spillage if safe to do so. Alert the Health, Safety & Environmental department of spill.

6.2 Environmental precautions:

Do not release into the environment. Do not discharge into drains, water courses or onto the ground. Collect spillage. Use containment for a large spill. Notify relevant authorities if this material is released to the environment.

6.3 Methods and material for containment and cleaning up:

Access to contaminated area only to authorized people. Absorb with sand or other inert absorbent. Shovel up and place in a container for salvage or disposal. Use clean non-sparking tools to collect absorbed material. Use explosion proof electric equipment. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Never return the spilled product to its original container for reuse. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. To clean the floor and all objects contaminated by this material, use an appropriate solvent (see § 9). Flush area with plenty of water. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container. Dispose of residue in accordance with regulations in force.

6.4 Reference to other sections:

Please observe the important information mentioned in the other sections. In particular, information on exposure controls/personal protection and disposal considerations can be found under sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Precautions:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. In partly emptied containers formation of explosive mixture is possible. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Use spark-proof tools and/or explosion-proof equipment. Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. If ventilation is insufficient, suitable respiratory protection must be provided. See Section 8 of the SDS for Personal Protective Equipment. Provide eyewash station and safety shower and ensure that their location are labelled conspicuously. Limit the quantities of product in the work area to those which are necessary for the work in hand. Handle in accordance with good industrial hygiene and safety practices. Handle and open container with care. Keep container tightly closed. Protect from contamination. Do not mix with incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Take care to prevent spills, waste and minimize release to the environment. In case of spills, beware of slippery floors and surfaces.

Hygiene measures:
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local/regional/national regulations. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. For further information, refer to section 10: "Stability and Reactivity". Store in original tightly closed container. Keep in properly labelled containers. Nitrogen blanketing of containers is recommended. Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Take action to prevent static discharges. Keep above the chemical's freezing point. Protect against physical damage and/or friction. Avoid discharge into drains, water courses or onto the ground. Provide a retention tank. Provide impermeable soil.

Packaging frequently used at our sites:
Polyethylene. Steel drums coated with epoxy-resin.

7.3 Specific end use(s):

No specific recommendations. See the technical data sheet on this product for further information.

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.

cyclohexane

Type	Exposure Limit Values		Source	Date	Remarks
TWA	200 ppm	700 mg/m3	SUVA	01 2021	
STEL	800 ppm	2 800 mg/m3	SUVA	01 2021	
TWA	200 ppm	700 mg/m3	EU ELV	12 2009	Indicative

octamethylcyclotetrasiloxane; [D4]

Type	Exposure Limit Values		Source	Date	Remarks
TWA	10 ppm	120 mg/m3	WEEL		

Biological Limit Values:

cyclohexane

Exposure Limit Values	Type	Source	Date
150 mg/g (Creatinine in urine)	Total 1,2-Cyclohexanediol (Sampling time: c)	CH BAT	2013

	Long term exposure after several (4-5) work shifts. b) End of exposure / end of shift.)		
150 mg/g (Creatinine in urine)	Total 1,2-Cyclohexanediol (Sampling time: c) Long term exposure after several (4-5) work shifts. b) End of exposure / end of shift.)	CH BAT	2013

Additional exposure limits under the conditions of use:

acetic acid ... %

Type	Exposure Limit Values		Source	Date	Remarks
TWA	10 ppm	25 mg/m3	EU ELV	12 2009	Indicative
STEL	20 ppm	50 mg/m3	EU ELV	02 2017	Indicative
TWA	10 ppm	25 mg/m3	SUVA	01 2021	
STEL	20 ppm	50 mg/m3	SUVA	01 2021	

Monitoring methods:
Ensure workers' exposure monitoring in accordance with national and European regulations in force, in particular Directives 98/24/EC and 2004/37/EC.

8.2 Exposure controls:

Appropriate Engineering Controls:
Use engineering controls to reduce air contamination to permissible exposure level. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Engineering controls are always preferable to personal protective equipment. Control measures to consider: Provide adequate ventilation. In case of inadequate ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower. Use explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment:
Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. Personal protective equipment should be chosen according to applicable standards, adapted to the conditions of use of the product and in discussion with the supplier of the personal protective equipment.

Eye/face protection:
Safety goggles.
Use face shield in case of splash risk.

Hand Protection:
This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes. In case this product will be mixed with other substances, you need to contact a supplier of CE approved protective gloves in order to determine the appropriate gloves.

Prolonged or repeated contact:
Material: Nitrile.
Glove thickness: 1,25 mm
Guideline: EN374-3
Additional Information: Gloves commonly used in Elkem's facilities.

Short contact:
Material: Nitrile / Neoprene
Glove thickness: 0,198 mm
Guideline: EN374-3
Additional Information: Gloves commonly used in Elkem's labs.

Skin and Body Protection:
Wear appropriate clothing to prevent any possibility of skin contact. Isolate contaminated clothing and wash before reuse. In case of splashes: Wear apron or special protective clothing.

Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use the following CE approved air-purifying respirator: Breathing apparatus with combined filter type ABEK. Wear respiratory protection with combination filter (dust and gas filter) during operations leading to the formation of dust/aerosols.

Environmental Controls:
See sections 7 and 13 of the Safety Data Sheet.

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
pH:	By definition, pH measurement consists in the determination of hydrogen ions concentration in solution, generally aqueous. Silicones products are hydrophobic and therefore, not soluble in water. By consequence, it is not possible to measure the pH value.
Melting point/freezing point:	No data available.
Boiling Point:	81 °C
Flash Point:	-22 °C (Closed cup according to method Afnor T 60103.)
Flammability:	No data available.
Flammability Limit - Upper (%):	8,4 %(V) Cyclohexane.
Flammability Limit - Lower (%):	1,3 %(V) Cyclohexane.
Vapor pressure:	350 hPa (50 °C)
Relative vapor density:	No data available.
Evaporation Rate:	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.
Self-ignition:	245 °C Cyclohexane.
Decomposition Temperature:	No data available.
Kinematic viscosity:	Approximate 7 000 mm2/s (25 °C)
Particle characteristics:	Not applicable.

9.2 Other information:

Dynamic viscosity:	Approximate 7 000 mPa.s (25 °C)
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:

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:

During use or in contact with water, may generate hazardous substances. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

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

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

Inhalation:
Not classified for acute toxicity based on available data.

Repeated dose toxicity:

Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
NOAEL: 6,88 mg/l ; (Mouse ; Inhalation - vapour) ; Subchronic exposure.

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
NOAEL: 1,82 mg/l ; LOAEL: 8,5 mg/l ; (Rat ; Female, Male ; Inhalation - vapour) ; Target Organ(s): Kidney ; Method: Similar to OECD 453 ; Chronic exposure.
NOAEL: 960 mg/kg ; (Rabbit ; Female, Male ; Dermal) ; No treatment-related adverse effects observed ; Method: Similar to OECD 410 ; Subacute exposure.

Skin Corrosion/Irritation:

Based on our knowledge of the composition information: Causes skin irritation.
CYCLOHEXANE (*110-82-7*):
Irritating. (Rabbit) ; Method: According to a standardised method.

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
An Expert Judgment stated that no classification is necessary based on present knowledge. Not irritating (Rabbit) ; Method: Similar to OECD 404

Serious Eye Damage/Eye Irritation:

Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
Not irritating (Rabbit) ; Method: OECD 405

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
An Expert Judgment stated that no classification is necessary based on present knowledge. Not irritating (Rabbit) ; Method: OECD 405

Respiratory or Skin Sensitization:

Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406

Germ Cell Mutagenicity:

In vitro: Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
Bacterial reverse mutation test: No mutagenic effect. (Salmonella typhimurium ; with and without metabolic activation) ; Method: OECD 471
In vitro gene mutations test on mammalian cells: No mutagenic effect. (Mouse lymphoma cells ; with and without metabolic activation)

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Bacterial reverse mutation test: No mutagenic effect. (Salmonella typhimurium ; with and without metabolic activation) ; Method: OECD 471
In vitro gene mutations test on mammalian cells: No mutagenic effect. (Mouse lymphoma cells ; with and without metabolic activation) ; Method: Similar to OECD 476
In vitro mammalian chromosomal aberration test: No clastogenic effect. (Chinese hamster ovary cells ; with and without metabolic activation) ; Method: Similar to OECD 473

In vivo: Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
Chromosomal aberration: No mutagenic effect. (Rat ; Inhalation) ; Method: OECD 475

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Mammalian bone marrow chromosomal aberration test: negative (Rat ; Female, Male ; Inhalation) ; Method: Similar to OECD 475
Rodent dominant Lethal test: negative (Rat ; Female, Male ; Gavage (Oral)) ; Method: Similar to OECD 478

Carcinogenicity:

Based on our knowledge of the composition information:
OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Not classified
No effects expected. NOAEC: >= 8,492 mg/l (Rat ; Female, Male ; Inhalation - vapor) ; Method: Similar to OECD 453 ; Chronic exposure.

Reproductive toxicity:

Fertility: Based on our knowledge of the composition information:

CYCLOHEXANE (*110-82-7*):
Not classified
NOAEL (parent): 24,08 mg/l ; NOAEL (F1): 24,08 mg/l ; NOAEL (F2): 24,08 mg/l (Rat ; Inhalation - vapor) ; Method: OECD 416

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Suspected of damaging fertility.
Fertility study 2 generations: NOAEL (parent): 3,64 mg/l ; NOAEL (F1): 3,64 mg/l ; NOAEL (F2): None. (Rat ; Female, Male ; Inhalation) ; Method: Similar to OECD 416 ; Effects on fertility

Teratogenicity: Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
Not classified
NOAEL (terato): 24,08 mg/l ; NOAEL (mater): 1,72 - 6,88 mg/l (Rat ; Inhalation - vapor) ; Method: OECD 414

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
NOAEL (terato): > 8,492 mg/l ; NOAEL (mater): 3,64 mg/l (Rat ; Inhalation - vapor) ; Method: Similar to OECD 414 ; The product is not considered to be toxic for development.
NOAEL (terato): > 6,066 mg/l ; NOAEL (mater): 3,64 mg/l (Rabbit ; Inhalation - vapor) ; Method: Similar to OECD 414 ; The product is not considered to be toxic for development.

Specific Target Organ Toxicity - Single Exposure:

May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure:

Based on our knowledge of the composition information: Causes damage to organs through prolonged or repeated exposure.
CYCLOHEXANE (*110-82-7*):
Not classified

QUARTZ (SIO2) (*14808-60-7*):
Causes damage to organs through prolonged or repeated exposure if inhaled. Inhalation - dust and mist: Target Organ(s): Lungs

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Based on available data, the classification criteria are not met.

Aspiration Hazard:

Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
May be fatal if swallowed and enters airways.

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Based on available data, the classification criteria are not met.

11.2 Information on other hazards:

Endocrine disrupting properties:

No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute toxicity: Very toxic to aquatic life.

Fish: Based on our knowledge of the composition information:

CYCLOHEXANE (*110-82-7*):
LC 50 (Fathead minnow (Pimephales promelas); 96 h ; Flow through) : 4,53 mg/l ; Method: OECD 203

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
LC 50 (Oncorhynchus mykiss; 96 h ; Flow through) : > 0,022 mg/l ; Method: According to a standardised method.

Aquatic Invertebrates: Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
EC 50 (Water flea (Daphnia magna); 48 h) : 0,9 mg/l ; Method: OECD 202

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
EC 50 (Water flea (Daphnia magna); 48 h ; Flow through) : > 0,015 mg/l ; Method: According to a standardised method.

Aquatic plants: Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
EC 50 (Algae (Pseudokirchneriella subcapitata); 72 h) : > 4,425 mg/l ; Method: OECD 201
NOEC (Algae (Pseudokirchneriella subcapitata); 72 h) : 0,925 mg/l ; Method: OECD 201

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
ErC50 (Algae (Pseudokirchneriella subcapitata); 96 h) : > 0,022 mg/l ; Method: According to a standardised method.
ErC10 (Algae (Pseudokirchneriella subcapitata); 96 h) : >= 0,022 mg/l ; Method: According to a standardised method.

Toxicity to microorganisms: Based on our knowledge of the composition information:
OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
EC 50 (3 h) : > 10 000 mg/l

Chronic Toxicity: Very toxic to aquatic life with long lasting effects.

Fish: Based on our knowledge of the composition information:
OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
NOEC (Oncorhynchus mykiss; 93 d ; Flow through) : >= 0,0044 mg/l ; Method: According to a standardised method.

Aquatic Invertebrates: Based on our knowledge of the composition information:
OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
NOEC (Water flea (Daphnia magna); 21 d ; Flow through) : >= 0,015 mg/l ; Method: According to a standardised method.

12.2 Persistence and Degradability:

Biodegradation: Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
77 % (28 d ; Oxygen depletion) ; Method: OECD 301 F ; Readily biodegradable

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
3,7 % (activated sludge and sewage, soil ; 28 d) ; Method: OECD 310 ; The product is not considered to be readily biodegradable.

BOD/COD Ratio: No data available.

12.3 Bioaccumulative potential:

Bioconcentration Factor (BCF): Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
Bioconcentration Factor (BCF): 167 ; Method: estimated ; QSAR

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Bioconcentration Factor (BCF): 14 900 (Fathead Minnow) ; Method: OECD 305 ; Not bioaccumulable based on the depuration rate constant

Partition coefficient (n-octanol/water): Based on our knowledge of the composition information:
CYCLOHEXANE (*110-82-7*):
Log Kow: 3,44

Log Kow: 3,44 (25 °C)

OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Log Kow: 5,10

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

Based on our knowledge of the composition information:
OCTAMETHYLCYCLOTETRASILOXANE; [D4] (*556-67-2*):
Meets PBT (persistent/bioaccumulative/toxic) criteria. (REACH (1907/2006) Ax XIII)
Meets vPvB criteria (REACH (1907/2006) Ax XIII)

12.6 Endocrine disrupting properties:

No data available.

12.7 Other adverse effects:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Do not empty into drains. The user's attention is drawn to the possible existence of local regulations regarding disposal. Please observe the important information mentioned in the other sections. In particular, information on hazards identification and product stability and reactivity under sections 2 and 10.

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 in suitable combustion chamber.

Contaminated Packaging:
Contaminated packages should be as empty as possible. Recycle following cleaning or dispose of at an authorised site. Packaging that cannot be cleaned should be disposed of in the same way as the product it contained.

Waste code:
The waste code of the European Waste Catalogue (EWC) cannot be determined for this product, as its determination depends on how the material is used by the end-users. The waste code has to be determined within the EU in agreement with the waste-disposal operator.

SECTION 14: Transport information

ADR

14.1 UN number or ID number:	UN 1263
14.2 UN Proper Shipping Name:	PAINT RELATED MATERIAL
Additional Technical Name(s) :	Cyclohexane

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:	None.

ADN

14.1 UN number or ID number:	UN 1263
14.2 UN Proper Shipping Name:	PAINT RELATED MATERIAL
Additional Technical Name(s) :	Cyclohexane
14.3 Transport Hazard Class(es):	
Class:	3
Label(s):	3
Hazard No. (ADR):	–
14.4 Packing Group:	II
14.5 Environmental hazards:	Dangerous for the environment.
14.6 Special precautions for user:	None.

RID

14.1 UN number or ID number:	UN 1263
14.2 UN Proper Shipping Name:	PAINT RELATED MATERIAL
Additional Technical Name(s) :	Cyclohexane
14.3 Transport Hazard Class(es):	
Class:	3
Label(s):	3
Hazard No. (ADR):	33
14.4 Packing Group:	II
14.5 Environmental hazards:	Dangerous for the environment.
14.6 Special precautions for user:	None.

IMDG / IMO

14.1 UN number or ID number:	UN 1263
14.2 UN Proper Shipping Name:	PAINT RELATED MATERIAL
Zusätzliche technische Bezeichnung(en) :	Cyclohexan
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:	None.

14.7 Maritime transport in bulk according to IMO instruments: Not applicable

IATA

14.1 UN number or ID number:	UN 1263
14.2 Proper Shipping Name:	Paint related material
Zusätzliche technische Bezeichnung(en) :	Cyclohexan
14.3 Transport Hazard Class(es):	
Class:	3
Label(s):	3
14.4 Packing Group:	II
14.5 Environmental hazards:	Dangerous for the environment.
14.6 Special precautions for user:	None.
Other information	
Passenger and cargo aircraft:	Allowed.

Cargo aircraft only: Allowed.

SECTION 15: Regulatory information

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

EU Regulations:

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: None present or none present in regulated quantities.

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17:

Chemical name	CAS-No.
cyclohexane	110-82-7
octamethylcyclotetrasiloxane; [D4]	556-67-2

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration	Additional Information
octamethylcyclotetrasiloxane; [D4]	556-67-2	0,01 - 0,079%	very Persistent and very Bioaccumulative (vPvB)Persistent, Bioaccumulative and Toxic (PBT)

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:
The packaging shall be visibly, legibly and indelibly marked as follows:
This product is not to be used under conditions of poor ventilation.
This product is not to be used for carpet laying.

Chemical name	CAS-No.	Entry No:	Concentration:
cyclohexane	110-82-7	57	20 - 50%
octamethylcyclotetrasiloxane; [D4]	556-67-2	70	0,01 - 0,079%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration

cyclohexane	110-82-7	20 - 30%
octamethylcyclotetrasiloxane; [D4]	556-67-2	0,01 - 0,079%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: None present or none present in regulated quantities.

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status:

Australia Industrial Chem. Act (AIIC):	On or in compliance with the inventory.
Canada DSL Inventory List:	On or in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory.
Thailand DIW Existing Chemical Inv. List:	On or in compliance with the inventory.
Vietnam National Chemical Inventory:	On or in compliance with the inventory.
EINECS, ELINCS or NLP:	On or in compliance with the inventory.

SECTION 16: Other information

Revision Information:

SECTION 3:	Modification:	Composition/information on ingredients
SECTION 15:	Modification:	Regulatory information

Abbreviations and acronyms:

CLP: Regulation No. 1272/2008.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
NOAEL - No Observable Adverse Effect Level
LOAEL - Lowest Observable Adverse Effect Level
ED: Endocrine Disruptor
SVHC: Listed on the Candidate List of substances of very high concern (SVHC)

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Flammable liquids ; Category 2 ; H225	On basis of test data
Skin irritation ; Category 2 ; H315	Calculation method
Specific Target Organ Toxicity - Single Exposure ; Category 3 ; H336	Calculation method
Specific Target Organ Toxicity - Repeated Exposure ; Category 1 ; H372	Calculation method
Acute hazards to the aquatic environment ; Category 1 ; H400	Calculation method
Chronic hazards to the aquatic environment ; Category 1 ; H410	Calculation method

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.

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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.