

SAFETY DATA SHEET

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200

1. Identification of the substance or mixture and of the supplier

1.1 Product identifier:

Product name: CAF 520 TRANSLUCENT

Product No.: PRCO90050558

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

Identified uses: Used for making joints, sealing and gluing.

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 FONTS 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 USA Corp.
Two Tower Blvd, Suite 1802
08816-1100 East Brunswick, NJ
USA

Telephone: +1 (732) 227-2060

Fax: +1 (732) 249-7000

1.4 Emergency telephone number:

+1 (800) 424-9300 CHEMTREC

2. Hazard identification

2.1 Classification of the substance or mixture:

The product has not been classified as hazardous according to the legislation in force.

Hazard Classification: Not classified

2.2 Label Elements:

Hazard pictograms: No symbol

Signal Word: No signal word

Hazard statements: Not applicable

Precautionary Statements: Not applicable

2.3 Other hazards which do not result in GHS classification:

No other information noted.

Substance(s) formed under the conditions of use:

Chemical name	Concentration	CAS number	Classification
Methanol	<2.5%	67-56-1	Flam. Liq. 2 H225; Acute Tox. 3 H301; Acute Tox. 3 H331; Acute Tox. 3 H311; STOT SE 1 H370;
Ethanol	<0.35%	64-17-5	Flam. Liq. 2 ; Acute Tox. 4 ; STOT SE 1 ; None known.

* 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.

3. Composition/information on ingredients

Mixtures:

General information:

Mixture of polydimethylsiloxanes, silica and curing agents.

Hazardous Component(s):

Chemical name	Concentration *	Type	CAS number	Classification
(1) Silicon dioxide	5 - <10%	Component	112945-52-5	None known.
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	1 - <10%	Component	64742-46-7	Asp. Tox. 1 H304;
Trimethoxyvinylsilane	1 - <5%	Component	2768-02-7	Flam. Liq. 3 H226; Acute Tox. 4 H332; Skin Sens. 1B H317;
3-Aminopropyltriethoxysilane	0.1 - <1%	Component	919-30-2	Flam. Liq. 4 H227; Acute Tox. 4 H302; Skin Corr. 1B H314; Eye Dam. 1 H318; Skin Sens. 1 H317;

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

* 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.

4. First-aid measures

General information:

No specific first aid measures noted.

4.1 Description of first aid measures:

Inhalation:

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact:

Wash skin with soap and water. Get medical attention if symptoms occur after washing.

Eye Contact:

In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

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:

No specific symptoms noted.

4.3 Indication of any immediate medical attention and special treatment needed:**Notes to the physician:**

No specific recommendations.

5. Fire-fighting measures**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.

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.

Special protective equipment for fire-fighters:

Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Follow safe handling advice and personal protective equipment recommendations. Caution: Contaminated surfaces may be slippery.

6.2 Environmental Precautions:

Do not release into the environment. Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up:

Absorb with sand or other inert absorbent and place into containers.

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.

7. Handling and storage

7.1 Precautions for safe handling:

Precautions:

No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product. 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.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local/regional/national regulations. Store in tightly closed original container in a dry and cool place.

Packaging frequently used at our sites:

Steel drums coated with epoxy-resin.

7.3 Specific end use(s):

See the technical data sheet on this product for further information.

8. Exposure controls/personal protection

8.1 Control Parameters:

Occupational Exposure Limits:

Although some of the components of this product may have exposure guidelines, no exposure would be expected under normal handling conditions due to the physical state of the material.

Additional exposure limits under the conditions of use:

Methanol

Type	Exposure Limit Values	Source	Date	Remarks
IDLH	6,000 ppm -	NIOSH IDLH	10 2017	IDLH values based on the 1994 Revised Criteria
STEL	250 ppm 325 mg/m3	NIOSH	2005	
SKIN_DES	- -	NIOSH	2005	Can be absorbed through the skin.
REL	200 ppm 260 mg/m3	NIOSH	2005	
TWA	200 ppm -	ACGIH	2008	
PEL	200 ppm 260 mg/m3	OSHA Z1	02 2006	
TWA	200 ppm 260 mg/m3	OSHA Z1A	1989	
STEL	250 ppm -	ACGIH	2008	
STEL	250 ppm 325 mg/m3	OSHA Z1A	1989	
SKIN_FINAL	- -	OSHA Z1A	1989	Can be absorbed through the skin.
SKIN_DES	- -	ACGIH	03 2019	Danger of cutaneous absorption
LEL	- 6.0 %	NIOSH IDLH	07 2020	

Ethanol

Type	Exposure Limit Values	Source	Date	Remarks
REL	1,000 ppm 1,900 mg/m3	NIOSH	2005	
PEL	1,000 ppm 1,900 mg/m3	OSHA Z1	02 2006	
TWA	1,000 ppm 1,900 mg/m3	OSHA Z1A	1989	
STEL	1,000 ppm -	ACGIH	2009	
IDLH	3,300 ppm -	NIOSH IDLH	10 2017	IDLH values based on the 1994 Revised Criteria
LEL	- 3.3 %	NIOSH IDLH	10 2017	

8.2 Exposure controls:

Appropriate Engineering Controls:

Use engineering controls to reduce air contamination to permissible exposure level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment:

Provide sufficient ventilation during operations which cause vapor formation. 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 glasses with side shields
Hand Protection:	Protective gloves are recommended.
Skin and Body Protection:	No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
Respiratory Protection:	No protection is ordinarily required under normal conditions of use and with adequate ventilation.

Environmental Controls:

See sections 7 and 13 of the Safety Data Sheet.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	
Physical state:	Solid (ASTM D4359)
Form:	Viscous paste
Color:	Colorless
Odor:	Faint
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:	No data available.
Flash Point:	Not applicable
Flammability:	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Relative vapor density:	No data available.
Evaporation Rate:	No data available.
Density:	Approximate 1.02 kg/dm ³ (20 °C)
Solubility(ies):	
Solubility in Water:	Practically Insoluble
Solubility (other):	Acetone: Very slightly soluble Ethanol: Very slightly soluble Aliphatic hydrocarbons: Partially soluble. Aromatic hydrocarbons: Partially soluble. Chlorinated solvents: Partially soluble.
Partition coefficient (n-octanol/water):	No data available.

Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.

9.2 Other information:

Oxidizing properties:	According to the data on the components, Not considered as oxidizing. ((evaluation by structure-activity relationship))
Particle Size:	Not applicable

10. Stability and reactivity

10.1 Reactivity:

Vulcanizes at room temperature on contact with moisture in the air. Reacts slowly on contact with water or humidity.

10.2 Chemical Stability:

Stable

10.3 Possibility of hazardous reactions:

During use or in contact with water, may generate hazardous substances.

10.4 Conditions to avoid:

Avoid contact with water or moist air. The product hydrolyses and may release volatile flammable and/or toxic substance(s): Methanol. Avoid heat, sparks, open flames and other ignition sources.

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.

11. Toxicological information

11.1 Information on toxicological effects:

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:

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

NOAEL: 5,000 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 408 ; Subchronic exposure. Results obtained on a similar product.

NOAEL: 10.4 mg/l ; (Rat ; Female, Male ; Inhalation) ; Method: OECD 413 ; Subchronic exposure. Results obtained on a similar product.

TRIMETHOXYVINYL SILANE (2768-02-7):

NOAEL: < 62.5 mg/kg ; LOAEL: 62.5 mg/kg ; (Rat ; Female, Male ; Gavage (Oral)) ; Method: OECD 422 ; Subacute exposure.

NOAEL: 0.0605 mg/l ; (Rat ; Female, Male ; Inhalation - vapour) ; Subchronic exposure.

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

NOAEL: 200 mg/kg ; LOAEL: 600 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 408 ; Subchronic exposure.

Skin Corrosion/Irritation:

Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

Not irritating (Rabbit)

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

Not irritating (Rabbit) ; Method: OECD 404

TRIMETHOXYVINYL SILANE (2768-02-7):

Not irritating (Rabbit ; 24 h) ; Method: Occluded (Dermal)

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

Corrosive. (Rabbit ; 1 h) ; Method: OECD 404

Serious Eye Damage/Eye Irritation:

Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

Not irritating (Rabbit)

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

Not irritating (Rabbit) ; Method: OECD 405

TRIMETHOXYVINYL SILANE (2768-02-7):

Not irritating (Rabbit ; 24 h) ; Method: OECD 405

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

Causes serious eye damage. (Rabbit) ; Method: OECD 405

Respiratory or Skin Sensitization:

Not a skin sensitizer.

Skin sensitization: No effect observed up to the highest dose tested. (Guinea Pig) ; Method: OECD 406

Germ Cell Mutagenicity:

In vitro: Based on our knowledge of the composition information:

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

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) ; Method: OECD 476 ; Results obtained on a similar product.

Chromosomal aberration: No clastogenic effect. (Chinese hamster ovary cells ; with and without metabolic activation) ; Method: OECD 473 ; Results obtained on a similar product.

TRIMETHOXYVINYL SILANE (2768-02-7):

Bacterial reverse mutation test: negative (Salmonella typhimurium and Escherichia coli ; with and without metabolic activation) ; Method: OECD 471

Chromosomal aberration: positive (Chinese hamster lung cells ; With metabolic activation) ; Method: OECD 473

In vitro gene mutations test on mammalian cells: negative (Chinese hamster ovary cells ; with and without metabolic activation) ; Method: OECD 476

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

Bacteria: No mutagenic effect. (Salmonella typhimurium ; with and without metabolic activation) ; Method: OECD 471

Chromosomal aberration: No clastogenic effect. (Chinese hamster lung cells ; with and without metabolic activation) ; Method: OECD 473

In vitro gene mutations test on mammalian cells: No mutagenic effect. (Chinese hamster ovary cells ; with and without metabolic activation) ; Method: OECD 476

In vivo: Based on our knowledge of the composition information:

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

Mammalian erythrocyte micronucleus test: negative (Mouse ; Oral) ; Method: OECD 474 ; Results obtained on a similar product.

Mammalian bone marrow chromosomal aberration test: negative (Mouse ; Intraperitoneal) ; Method: OECD 475 ; Results obtained on a similar product.

Rodent dominant Lethal test: negative (Mouse ; Inhalation) ; Method: OECD 483 ; Results obtained on a similar product.

TRIMETHOXYVINYL SILANE (2768-02-7):

Mammalian erythrocyte micronucleus test: No mutagenic effect. (Mouse ; Female, Male ; Intraperitoneal) ; Method: OECD 474

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

Mammalian erythrocyte micronucleus test: No mutagenic effect. (Mouse ; Female, Male ; Intraperitoneal) ; Method: OECD 474

Carcinogenicity:

Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

No effects expected.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Reproductive toxicity:**Fertility: Based on our knowledge of the composition information:**

SILICON DIOXIDE (112945-52-5):

No effects expected.

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

Not classified

Reproduction/developmental toxicity screening test: NOAEL (parent): ≥ 1.72 mg/l ; NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female, Male ; Inhalation) ; Method: OECD 421 ; Results obtained on a similar product.

Reproduction/developmental toxicity screening test: NOAEL (parent): $\geq 1,000$ mg/kg NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female, Male ; Ingestion) ; Method: OECD 422 ; Results obtained on a similar product.

Reproduction/developmental toxicity screening test: NOAEL (parent): $\geq 1,000$ mg/kg NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female, Male ; Ingestion) ; Method: OECD 421 ; Results obtained on a similar product.

TRIMETHOXYVINYL SILANE (2768-02-7):

Not classified

Reproduction/developmental toxicity screening test: NOAEL (parent): 250 mg/kg ; NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female ; Gavage (Oral)) ; Method: OECD 422 ; The product is not considered to affect fertility.

Reproduction/developmental toxicity screening test: NOAEL (parent): 1,000 mg/kg NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Male ; Gavage (Oral)) ; Method: OECD 422 ; The product is not considered to affect fertility.

Teratogenicity: Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

No effects expected.

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

Not classified

NOAEL (terato): $> 1,000$ mg/kg ; NOAEL (mater): $> 1,000$ mg/kg (Rat ; Gavage (Oral)) ; Method: OECD 414 ; Results obtained on a similar product.

TRIMETHOXYVINYL SILANE (2768-02-7):

Not classified

NOAEL (terato): 0.6 mg/l ; NOAEL (mater): 0.15 mg/l (Rat ; Inhalation - vapor) ; Method: According to a standardised method. ; The product is not considered to be toxic for development.

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

NOAEL (terato): 100 mg/kg ; NOAEL (mater): 100 mg/kg (Rat ; Ingestion) ; Method: OECD 414 ; The product is not considered to be toxic for development.

Specific Target Organ Toxicity - Single Exposure:**Based on our knowledge of the composition information:**

SILICON DIOXIDE (112945-52-5):

Based on available data, the classification criteria are not met.

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

Based on available data, the classification criteria are not met.

TRIMETHOXYVINYL SILANE (2768-02-7):

Based on available data, the classification criteria are not met.

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure:**Based on our knowledge of the composition information:****SILICON DIOXIDE (112945-52-5):**

Based on available data, the classification criteria are not met.

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

Based on available data, the classification criteria are not met.

TRIMETHOXYVINYL SILANE (2768-02-7):

Based on available data, the classification criteria are not met.

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

Based on available data, the classification criteria are not met.

Aspiration Hazard:**Based on our knowledge of the composition information:****SILICON DIOXIDE (112945-52-5):**

Based on available data, the classification criteria are not met.

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

May be fatal if swallowed and enters airways.

TRIMETHOXYVINYL SILANE (2768-02-7):

Based on available data, the classification criteria are not met.

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Ecotoxicity:

Acute toxicity:**Fish: Based on our knowledge of the composition information:****SILICON DIOXIDE (112945-52-5):**

LC 50 (Fish; 96 h) : > 10,000 mg/l

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):

LL50 (Fish; 96 h) : > 250 mg/l ; Method: OECD 203 ; Nominal loading rates (saturated solution or WAF/WSF). Results obtained on a similar product.

TRIMETHOXYVINYL SILANE (2768-02-7):

LC 50 (Oncorhynchus mykiss; 96 h) : 191 mg/l

3-AMINOPROPYL TRIETHOXY SILANE (919-30-2):

LC 50 (Danio rerio; 96 h ; semi-static) : > 934 mg/l ; Method: OECD 203

Aquatic Invertebrates: Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

(Water flea (*Daphnia magna*); 24 h) : > 10,000 mg/l

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):
LL50 (Aquatic invertebrates; 48 h) : > 3,000 mg/l ; Method: OECD 202 ; Nominal loading rates (saturated solution or WAF/WSF). Results obtained on a similar product.

TRIMETHOXYVINYL SILANE (2768-02-7):

EC 50 (Water flea (*Daphnia magna*); 48 h ; Static) : 168.7 mg/l ; Method: According to a standardised method.

3-AMINOPROPYL TRIETHOXYSILANE (919-30-2):

EC 50 (Water flea (*Daphnia magna*); 48 h ; Static) : 331 mg/l

Aquatic plants: Based on our knowledge of the composition information:

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):
ErL50 (*Skeletonema costatum*; 72 h) : > 10,000 mg/l ; Method: According to a standardised method. ;
Nominal loading rates (saturated solution or WAF/WSF).

TRIMETHOXYVINYL SILANE (2768-02-7):

EC 50 (Algae (*Pseudokirchneriella subcapitata*); 7 d ; Static) : 210 mg/l ; Method: According to a standardised method.

EC10 (Algae (*Pseudokirchneriella subcapitata*); 7 d ; Static) : 25 mg/l ; Method: According to a standardised method.

NOAEC (Algae (*Pseudokirchneriella subcapitata*); 7 d ; Static) : 32 mg/l ; Method: According to a standardised method.

3-AMINOPROPYL TRIETHOXYSILANE (919-30-2):

EC 50 (Green algae (*Scenedesmus subspicatus*); 72 h ; Static) : > 1,000 mg/l ; Method: According to a standardised method.

NOEC (growth rate) (Green algae (*Scenedesmus subspicatus*); 72 h ; Static) : 1.3 mg/l ; Method: According to a standardised method.

Toxicity to microorganisms: No data available.

Chronic Toxicity:**Fish: Based on our knowledge of the composition information:**

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):
No adverse chronic effect observed up to and including the threshold of 1 mg/L.
(Fish) Method: Structure-activity relationship (SAR)

Aquatic Invertebrates: Based on our knowledge of the composition information:

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):
NOELR (Water flea (*Daphnia magna*); 21 d) : > 1,000 mg/l ; Method: Structure-activity relationship (SAR) ;
Nominal loading rates (saturated solution or WAF/WSF).

12.2 Persistence and Degradability:

Stability in water: No data available.

Biodegradation: Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

The product solely consists of inorganic compounds which are not biodegradable.

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):
74 % (natural water ; 28 d) ; Method: According to a standardised method. ; Readily biodegradable Results obtained on a similar product.

TRIMETHOXYVINYL SILANE (2768-02-7):
51 % (activated sludge, domestic (adaptation not specified) ; 28 d ; Oxygen depletion) ; Method: OECD 301 F ; The product is not readily biodegradable.

3-AMINOPROPYL TRIETHOXYSILANE (919-30-2):
67 % (sewage, domestic (adaptation not specified) ; 28 d ; Dissolved organic carbon (DOC)) ; Method: According to a standardised method. ; The product is not readily biodegradable.

BOD/COD Ratio: No data available.

12.3 **Bioaccumulative potential:**

Bioconcentration Factor (BCF): Based on our knowledge of the composition information:

HYDROCARBONS, C15-C20, N-ALKANES, ISOALKANES, CYCLICS, < 0.03% AROMATICS (64742-46-7):
Not applicable

3-AMINOPROPYL TRIETHOXYSILANE (919-30-2):
Bioconcentration Factor (BCF): 3.4 (Common Carp) ; Method: OECD 305

Partition coefficient (n-octanol/water): Based on our knowledge of the composition information:

TRIMETHOXYVINYL SILANE (2768-02-7):
Log Kow: -2 (20 °C) ; Method: estimated ; at pH 7, Results obtained on a similar product.

3-AMINOPROPYL TRIETHOXYSILANE (919-30-2):
Log Kow: -2.9 ; Method: estimated ; Results obtained on a similar product.

12.4 **Mobility in soil:**

No data available.

12.5 **Other adverse effects:**

No data available.

13. Disposal considerations

13.1 **Waste treatment methods:**

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.

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.

14. Transport information

DOT

Not regulated.

IMDG / IMO

Not regulated.

IATA

Not regulated.

15. Regulatory information**US Federal Regulations:****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** None present or none present in regulated quantities.**CERCLA Hazardous Substance List (40 CFR 302.4):** None present or none present in regulated quantities.**Superfund Amendments and Reauthorization Act of 1986 (SARA):****Hazard categories:**

Not classified

SARA 304 Emergency Release Notification: None present or none present in regulated quantities.

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required: None present or none present in regulated quantities.**US State Regulations:****US. California Proposition 65:**

This product can expose you to chemicals including: Methanol (<0.4%) which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act: No ingredient regulated by NJ Right-to-Know Law present.**Chemical Identity:**

Silicon dioxide

US. Massachusetts RTK - Substance List:**Chemical Identity:**

Silicon dioxide

US. Pennsylvania RTK - Hazardous Substances: No ingredient regulated by PA Right-to-Know Law present.**Chemical Identity:**

Silicon dioxide

US. Rhode Island RTK:**Chemical Identity:**

Silicon dioxide

Inventory Status:

Canada DSL Inventory List:

On or in compliance with the inventory.

China Inv. Existing Chemical Substances:

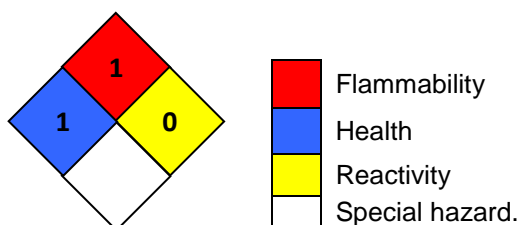
On or in compliance with the inventory.

Taiwan Chemical Substance Inventory:
 US TSCA Inventory:
 EINECS, ELINCS or NLP:

On or in compliance with the inventory.
 On or in compliance with the inventory.
 On or in compliance with the inventory.

16. Other information, including date of preparation or last revision

NFPA Hazard ID:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

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

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H370	Causes damage to organs.

Issue Date: 06/02/2023

Version #: 6.1

Further Information:

No data available.

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.