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 24 MF GREY **Product No.:** PRCO90062191

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 Germany GmbH
Hans-Sachs-Strasse 4a
D-23566 Lübeck
GERMANY

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

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 been classified according to the legislation in force.

Hazard Classification:

Health Hazards:

Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.

2.2 Label Elements:

Hazard pictograms:

Signal Word: Warning

Hazard statements: H317: May cause an allergic skin reaction.

Precautionary Statements:

Prevention: P280: Wear protective gloves/protective clothing.

Response: P302+P350+P332+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

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
2-Pentanone, oxime	<=5%	623-40-5	Acute Tox. 4 H302; Eye Irrit. 2 H319; STOT RE 2 H373; Aquatic Chronic 3 H412;
Ethanol	<=1%	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) Quartz	20 - <50%	Component	14808-60-7	Carc. 1A H350i; STOT RE 1 H372;
(1) Silicon dioxide	5 - <10%	Component	112945-52-5	None known.
2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime	1 - <5%	Component	58190-62-8	Acute Tox. 4 H302; Eye Irrit. 2 H319;
(1) Titanium dioxide	1 - <5%	Component	13463-67-7	Carc. 2 H351;
2-Pentandione, O,O',O''-(methylsilylidyne)trioxime	1 - <5%	Component	37859-55-5	Acute Tox. 4 H302; Eye Irrit. 2 H319;
3-Aminopropyltriethoxysilane	0.1 - <1%	Component	919-30-2	Flam. Liq. 4 H227; Eye Dam. 1 H318; Skin Sens. 1 H317; Skin Corr. 1B H314; Acute Tox. 4 H302;

(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:
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. 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:

Ventilate the area. Do not breathe vapor. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental Precautions:

Do not discharge into drains, water courses or onto the ground. Collect spillage.

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:

Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the SDS.

7. Handling and storage

7.1 Precautions for safe handling:

Precautions:
Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment. 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.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local/regional/national regulations. Store in a well-ventilated place. Keep container tightly closed. Keep in properly labelled containers.

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:

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:	Paste
Color:	Gray
Odor:	No data available.
pH:	No data available.
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 1.25 kg/dm3 (20 °C)
Solubility(ies):	
Solubility in Water:	Practically Insoluble
Solubility (other):	Acetone: Very slightly soluble Alcohol: Very slightly soluble Aliphatic hydrocarbons: Dispersible Aromatic hydrocarbons: Dispersible Chlorinated solvents: Dispersible
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.

10.2 Chemical Stability:

Stable at room temperature provided it is not in contact with air.

10.3 Possibility of hazardous reactions:

Will not occur.

10.4 Conditions to avoid:

None known.

10.5 Incompatible Materials:

Strong oxidizing agents and water.

10.6 Hazardous Decomposition Products:

Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and 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:
2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
NOAEL: 18 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 422 ; Subacute exposure. Results obtained on a similar product.
NOAEL: 13 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 408 ; Subchronic exposure. Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):

NOAEL: 17 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 422 ; Subacute exposure. Results obtained on a similar product.
NOAEL: 13 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 408 ; Subchronic exposure. Results obtained on a similar product.

3-AMINOPROPYLTRIETHOXYSILANE (*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)

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Not irritating (Rabbit) ; Method: OECD 404 ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Not irritating (Rabbit) ; Method: OECD 404

3-AMINOPROPYLTRIETHOXYSILANE (*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)

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Irritant. (Rabbit) ; Method: OECD 405 ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Causes serious eye irritation. (Rabbit) ; Method: OECD 405 ; Results obtained on a similar product.

3-AMINOPROPYLTRIETHOXYSILANE (*919-30-2*):
Causes serious eye damage. (Rabbit) ; Method: OECD 405

Respiratory or Skin Sensitization:

Based on our knowledge of the composition information: May cause an allergic skin reaction.
2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406 ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406 ; Results obtained on a similar product.

3-AMINOPROPYLTRIETHOXYSILANE (*919-30-2*):
Skin sensitization: May cause an allergic skin reaction. (Guinea Pig) ; Method: OECD 406

Germ Cell Mutagenicity:

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

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Bacterial reverse mutation test: No mutagenic effect. (Salmonella typhimurium and Escherichia coli ; 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: Positive with metabolic activation., Negative without metabolic activation. (Human lymphocytes ; with and without metabolic activation) ; Method: OECD 473 ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Bacterial reverse mutation test: No mutagenic effect. (Salmonella typhimurium and Escherichia coli ; with and without metabolic activation) ; Method: OECD 471
Chromosomal aberration: Positive with metabolic activation., Negative without metabolic activation. (Human lymphocytes ; with and without metabolic activation) ; Method: OECD 473
In vitro gene mutations test on mammalian cells: No mutagenic effect. (Mouse lymphoma cells ; with and without metabolic activation) ; Method: OECD 476

3-AMINOPROPYLTRIETHOXYSILANE (*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:
2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Mammalian erythrocyte micronucleus test: negative (Rat ; Oral) ; Method: OECD 474 ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Mammalian erythrocyte micronucleus test: negative (Rat ; Oral) ; Method: OECD 474

3-AMINOPROPYLTRIETHOXYSILANE (*919-30-2*):
Mammalian erythrocyte micronucleus test: No mutagenic effect. (Mouse ; Female, Male ; Intraperitoneal) ; Method: OECD 474

Carcinogenicity:

Contains a component(s) that is/are not expected to be bioavailable due to the physical state of the material under normal handling and processing conditions.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Quartz	Overall evaluation: 1. Carcinogenic to humans.
Titanium dioxide	Overall evaluation: 2B. Possibly carcinogenic to humans.

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

Quartz	Known To Be Human Carcinogen.

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

Quartz	Cancer

Reproductive toxicity:

Fertility: Based on our knowledge of the composition information:
SILICON DIOXIDE (*112945-52-5*):
No effects expected.

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Not classified
Fertility study 1 generation: NOAEL (parent): > 103 mg/kg ; NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female, Male ; Ingestion) ; Method: OECD 415 ; Results obtained on a similar product.
NOAEL (parent): > 45 mg/kg NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female, Male ; Ingestion) ; Method: According to a standardised method. ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Not classified
Fertility study 1 generation: NOAEL (parent): > 99 mg/kg ; NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female, Male ; Ingestion) ; Method: OECD 415 ; Results obtained on a similar product. The product is not considered to affect fertility.
NOAEL (parent): > 43 mg/kg NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female, Male ; Ingestion) ; Method: According to a standardised method. ; Results obtained on a similar product. 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.

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Not classified
NOAEL (terato): > 103 mg/kg ; NOAEL (mater): > 103 mg/kg (Rat ; Ingestion) ; Method: According to a standardised method. ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Not classified
NOAEL (terato): > 99 mg/kg ; NOAEL (mater): > 99 mg/kg (Rat) ; Method: According to a standardised method. ; Results obtained on a similar product.

3-AMINOPROPYLTRIETHOXYSILANE (*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.

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Based on available data, the classification criteria are not met.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Based on available data, the classification criteria are not met.

3-AMINOPROPYLTRIETHOXYSILANE (*919-30-2*):
Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure:

Contains a component(s) that is/are not expected to be bioavailable due to the physical state of the material under normal handling and processing conditions.

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.

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Based on available data, the classification criteria are not met.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Based on available data, the classification criteria are not met.

3-AMINOPROPYLTRIETHOXYSILANE (*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

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
LC 50 (Oncorhynchus mykiss; 96 h) : > 117 mg/l ; Method: OECD 203 ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
LC 50 (Oncorhynchus mykiss; 96 h) : > 113 mg/l ; Method: OECD 203 ; Results obtained on a similar product.

3-AMINOPROPYLTRIETHOXYSILANE (*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

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
EC 50 (Water flea (Daphnia magna); 48 h) : > 117 mg/l ; Method: OECD 202 ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
EC 50 (Water flea (Daphnia magna); 48 h) : > 113 mg/l ; Method: OECD 202 ; Results obtained on a similar product.

3-AMINOPROPYLTRIETHOXYSILANE (*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:
2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
ErC50 (Algae (Pseudokirchneriella subcapitata); 72 h) : 103 mg/l ; Method: OECD 201 ; Results obtained on a similar product.
NOEC (Algae (Pseudokirchneriella subcapitata); 72 h) : 37 mg/l ; Method: OECD 201 ; Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
ErC50 (Algae (Pseudokirchneriella subcapitata); 72 h) : 100 mg/l ; Method: OECD 201 ; Results obtained on

a similar product.
NOEC (growth rate) (Algae (Pseudokirchneriella subcapitata); 72 h) : 36 mg/l ; Method: OECD 201 ; Results obtained on a similar product.

3-AMINOPROPYLTRIETHOXYSILANE (*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: No data available.

Aquatic Invertebrates: No data available.

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.

2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
1 % (28 d) ; Method: OECD 301 B ; Not readily degradable. Results obtained on a similar product.

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
1 % (28 d) ; Method: OECD 301 B ; The product is not readily biodegradable.

3-AMINOPROPYLTRIETHOXYSILANE (*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:
2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Bioconcentration Factor (BCF): 69.21 ; The product is not considered to have a bioaccumulative potential.
Structure-activity relationship (SAR)

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Bioconcentration Factor (BCF): 103.3 ; The product is not considered to have a bioaccumulative potential.
Structure-activity relationship (SAR)

3-AMINOPROPYLTRIETHOXYSILANE (*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:
2-PENTANONE, O,O',O''-(ETHENYLSILYLIDYNE)TRIOXIME (*58190-62-8*):
Log Kow: 1.25 (22 °C) ; Method: OECD 117

2-PENTANDIONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (*37859-55-5*):
Log Kow: 1.25 (22 °C) ; Method: OECD 107 ; Results obtained on a similar product.

3-AMINOPROPYLTRIETHOXYSILANE (*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):

Chemical Identity:	Reportable quantity:
2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime	De minimis concentration::TSCA 5(e),5(a)(2) - 1.0 % - One-Time Export Notification only.De minimis concentration::TSCA 5(a)(2) - 1.0 % - One-Time Export Notification only.
2-Pentandione, O,O',O''-(methylsilylidyne)trioxime	De minimis concentration::TSCA 5(a)(2) - 1.0 % - One-Time Export Notification only.De minimis concentration::TSCA 5(e),5(a)(2) - 1.0 % - One-Time Export Notification only.

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:
Skin sensitizer

SARA 304 Emergency Release Notification: 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: Toluene (<0.05%) 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:
Chemical Identity:
Quartz
Silicon dioxide
Titanium dioxide

US. Massachusetts RTK - Substance List:
Chemical Identity:
Quartz
Silicon dioxide
Titanium dioxide

US. Pennsylvania RTK - Hazardous Substances:
Chemical Identity:
Quartz
Silicon dioxide
Titanium dioxide

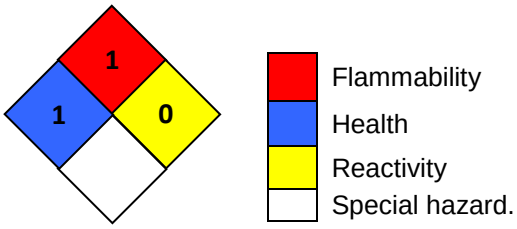
US. Rhode Island RTK:
Chemical Identity:
Quartz
Titanium dioxide

Inventory Status:

China Inv. Existing Chemical Substances:	E (special case)
New Zealand Inventory of Chemicals:	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.
EINECS, ELINCS or NLP:	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:

H227	Combustible liquid.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H350i	May cause cancer by inhalation.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Issue Date: 03/03/2023

Version #: 5.0

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.