

SAFETY DATA SHEET

According to Regulation 2024 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: SILCOLAPSE 426R U1

Product No.: PRCO90066106

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

Identified uses: Anti-foam. Agriculture.

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:

Elkem Silicones USA Corp.

7979 Park Place Road

29745 York, SC

USA

Telephone: +1 (803) 792-3000

Fax: +1 (803) 684-7202

E-mail: product.stewardship@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.

3. Composition/information on ingredients

Mixtures:

General information:

Aqueous emulsion of Polyorganosiloxanes.

Hazardous Component(s):

Chemical name	Concentration *	Type	CAS number	Classification
(1) Silicon dioxide	1 - <3%	Component	112945-52-5	None known.
1,2-benzisothiazol-3(2H)-one	0.005 - <0.05%	Component	2634-33-5	Acute Tox. 4 H302; Skin Irrit. 2 H315; Eye Dam. 1 H318; Skin Sens. 1 H317; Aquatic Acute 1 H400; Aquatic Toxicity (Acute): M = 1 Aquatic Toxicity (Chronic): M = 1

(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:

For further information refer to section 8 "Exposure-controls/personal protection".

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.

Eye Contact:

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

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:

Any important symptoms and effects are described in Section 11 (Toxicological information) of this SDS.

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:

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

Material will burn if water evaporates from emulsion, and it is heated above its flash point. 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.

Protect from freezing. Store between 5°C (41°F) and 38°C (100°F).

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.

Silicon dioxide

Type	Exposure Limit Values	Source	Date	Remarks
IDLH	- 3,000 mg/m ³	NIOSH IDLH	10 2017	IDLH values based on the 1994 Revised Criteria
TWA	- 10 mg/m ³	ACGIH	01 2021	Inhalable particles.
TWA	- 5 mg/m ³	OSHA Z1A	1989	Respirable fraction.
TWA	- 5 mg/m ³	Z3	09 2016	Respirable fraction.
TWA	- 15 mg/m ³	Z3	09 2016	Total dust.
TWA	- 15 millions of particles per cubic foot of air	Z3	09 2016	Respirable fraction.
TWA	- 15 mg/m ³	OSHA Z1A	1989	Total dust.
TWA	- 50 millions of particles per cubic foot of air	Z3	09 2016	Total dust.
TWA	- 3 mg/m ³	ACGIH	01 2021	Respirable particles.
REL	- 6 mg/m ³	NIOSH	2005	
TWA	- 20 millions of particles per cubic foot of air	Z3	2000	
TWA	- 0.8 mg/m ³	Z3	2000	The exposure limit is calculated from the equation, 80/(%SiO ₂), using a value of 100% SiO ₂ . Lower values of % SiO ₂ will give higher exposure limits.

Additional exposure limits under the conditions of use:

8.2 Exposure controls:

Appropriate Engineering Controls:

No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment:

Use personal protective equipment as required. 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:	Liquid
Form:	Emulsion
Color:	Milky white
Odor:	Characteristic
pH:	Approximate 6 Product as is.
Melting point/freezing point:	< 2 °C
Boiling Point:	> 100 °C
Flash Point:	> 100 °C / > 212 °F Aqueous emulsion
Flammability:	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	23 hPa (20 °C)
Relative vapor density:	No data available.
Evaporation Rate:	No data available.
Density:	Approximate 1 kg/dm ³ (20 °C)
Solubility(ies):	
Solubility in Water:	Dispersible
Solubility (other):	Common organic solvents.: Insoluble
Partition coefficient (n-octanol/water):	No data available.
Self-ignition:	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)

10. Stability and reactivity

10.1 Reactivity:

No data available.

10.2 Chemical Stability:

No data available.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Freezing.

10.5 Incompatible Materials:

No data available.

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:

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

NOAEL: 69 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: According to a standardised method. ;
Subchronic exposure.

Skin Corrosion/Irritation:

Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

Not irritating (Rabbit)

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

Causes skin irritation. (Rabbit) ; Method: OECD 404

Serious Eye Damage/Eye Irritation:

Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

Not irritating (Rabbit)

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

Causes serious eye damage. (Rabbit) ; Method: According to a standardised method.

Respiratory or Skin Sensitization:

Based on our knowledge of the composition information:

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

Skin sensitization: Strong skin sensitizer. (Guinea Pig) ; Method: OECD 406

Germ Cell Mutagenicity:**In vitro: Based on our knowledge of the composition information:**

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

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

Chromosomal aberration: positive without metabolic activation, negative with metabolic activation (Human lymphocytes) ; Method: OECD 473

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

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

Unscheduled DNA Synthesis (UDS) Test with mammalian liver cells in vivo: negative (Rat ; Male ; Oral) ; Method: OECD 486

Mammalian erythrocyte micronucleus test: negative (Mouse ; Female, Male ; Oral) ; 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 1910.1001-1053), 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.

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

Not classified

Fertility study 2 generations: NOAEL (parent): 112 mg/kg ; NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female ; Ingestion) ; Method: According to a standardised method.

Teratogenicity: Based on our knowledge of the composition information:

SILICON DIOXIDE (112945-52-5):

No effects expected.

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.

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

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.

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

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.

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

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

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

LC 50 (Oncorhynchus mykiss; 96 h) : 2.15 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

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

EC 50 (Water flea (Daphnia magna); 48 h) : 2.9 mg/l ; Method: OECD 202

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

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

ErC50 (Algae (Pseudokirchneriella subcapitata); 72 h) : 0.11 mg/l ; Method: OECD 201

NOEC (growth rate) (Algae (Pseudokirchneriella subcapitata); 72 h) : 0.0403 mg/l ; Method: OECD 201

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:

The product is not biodegradable.

BOD/COD Ratio: No data available.

12.3 Bioaccumulative potential:

Bioconcentration Factor (BCF):

The product is not bioaccumulating.

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

1,2-BENZISOTHIAZOL-3(2H)-ONE (2634-33-5):

Log Kow: 0.7 (20 °C)

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. 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.

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:**

Acute toxicity (any route of exposure)

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: Methanol (<0.04%) 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:

Silicon dioxide

US. Massachusetts RTK - Substance List:

Chemical Identity:

Silicon dioxide

US. Pennsylvania RTK - Hazardous Substances:

Chemical Identity:

Silicon dioxide

US. Rhode Island RTK:

Chemical Identity:

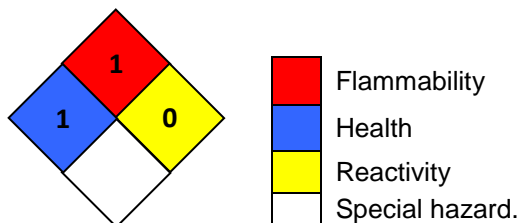
Silicon dioxide

Inventory Status:

Australia Industrial Chem. Act (AIC):	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.
Vietnam National Chemical 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:

H302 Harmful if swallowed.

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Issue Date: 08/14/2024

Version #: 1.1

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.