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: SILCOLEASE PC-94 **Product No.:** PRCO90054506

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

Identified uses: Catalyst
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. Hazards identification

2.1 Classification of the substance or mixture:

The product has been classified according to the legislation in force.

Hazard Classification:

Health Hazards:

Serious eye irritation	Category 2A	H319: Causes serious eye irritation.
Toxic to reproduction	Category 1B	H360D: May damage the unborn child.
Specific Target Organ Toxicity - Repeated Exposure	Category 1	H372: Causes damage to organs through prolonged or repeated exposure.

2.2 Label Elements:

Hazard pictograms:

Signal Word: Danger

Hazard statements: H319: Causes serious eye irritation.
H360D: May damage the unborn child.
H372: Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P280: Wear eye protection.

Response: P305+P351+P337+P313: IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
P308+P313: IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards which do not result in GHS classification:

No data available.

3. Composition/information on ingredients

Mixtures:

General information:
Aqueous emulsion of polyorganosiloxanes, additives.

Hazardous Component(s):

Chemical name	Concentration*	Type	CAS number
Dioctyltin dilaurate	35 - <45%	Component	3648-18-8
Benzenesulfonic acid, dodecyl-, branched, sodium salt	1 - <3%	Component	69227-09-4

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

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:
Move into fresh air and keep at rest. Get medical attention if symptoms persist.

Skin contact:
Wash contact areas with soap and water.
Get medical attention promptly if symptoms occur after washing.

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

Ingestion:
Do not induce vomiting. Rinse mouth thoroughly.
Get medical attention if symptoms occur.

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

None known.

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

Hazards:
No specific recommendations.

Treatment:
No specific recommendations.

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:

Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental Precautions:

Do not allow to enter drains, sewers or watercourses.

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 dry place. Keep in properly labelled containers. Store away from incompatible materials.
Do not allow material to freeze.

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:

Dioctyltin dilaurate

Type	Exposure Limit Values		Source	Date	Remarks
ST ESL	-	1 µg/m3	TX ESL	06 2018	Health Particulate.
AN ESL	-	0.1 µg/m3	TX ESL	06 2018	Health Particulate.
PEL	-	0.1 mg/m3	OSHA Z1	02 2006	as Sn
TWA	-	0.1 mg/m3	OSHA Z1A	1989	as Sn
TWA	-	0.1 mg/m3	ACGIH	2008	as Sn
REL	-	0.1 mg/m3	NIOSH	2005	as Sn
SKIN_DES	-	-	NIOSH	2005	Can be absorbed through the skin. as Sn
STEL	-	0.2 mg/m3	ACGIH	2008	as Sn
SKIN_FINAL	-	-	OSHA Z1A	1989	Can be absorbed through the skin. as Sn
SKIN_DES	-	-	ACGIH	03 2019	Danger of cutaneous absorption as Sn
TWA PEL	-	0.1 mg/m3	US CA OEL	09 2006	as Sn
SKIN_DES	-	-	US CA OEL	09 2006	Can be absorbed through the skin. as Sn
STEL	-	0.2 mg/m3	US CA OEL	09 2006	as Sn
SKIN_DES	-	-	TN OEL	06 2008	Can be absorbed through the skin. as Sn
TWA	-	0.1 mg/m3	TN OEL	06 2008	as Sn

8.2 Exposure controls:

Appropriate Engineering Controls:
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.

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: Goggles/face shield are recommended.

Hand Protection: Protective gloves are recommended.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If ventilation is insufficient, suitable respiratory protection must be provided.

Environmental Controls:
No data available.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	
Physical state:	Liquid
Form:	Emulsion
Color:	White
Odor:	Odorless
pH:	4.1 - 5.5 (100 %)
Melting point/freezing point:	0 °C
Boiling Point:	> 100 °C
Flash Point:	Aqueous emulsion does not flash.
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 kg/dm3 (20 °C)
Solubility(ies):	
Solubility in Water:	Dispersible
Solubility (other):	Common organic solvents.: Insoluble
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Particle characteristics:	Not applicable.

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:

Not relevant.

10.2 Chemical Stability:

Stable

10.3 Possibility of hazardous reactions:

Will not occur.

10.4 Conditions to avoid:

Freezing.

10.5 Incompatible Materials:

Strong oxidizing agents.

10.6 Hazardous Decomposition Products:

Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.

11. Toxicological information

Information on likely routes of exposure:

Inhalation: No data available.

Ingestion: No data available.

Skin contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects:

Acute toxicity:

Oral:
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:
DIOCTYLTIN DILAURATE (*3648-18-8*):
NOAEL: 0.3 - 0.5 mg/kg ; (Rat ; female ; Oral) ; Method: OECD 422 ; Subacute exposure Results obtained on a similar product.
NOAEL: 0.3 - 0.4 mg/kg ; (Rat ; Male ; Oral) ; Method: OECD 422 ; Subacute exposure Results obtained on a similar product.

Skin Corrosion/Irritation:

Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
not corrosive not corrosive (Human, reconstructed epidermis (RhE) model) ; Method: OECD 431
Not irritating Not irritating (Human, reconstructed epidermis (RhE) model) ; Method: OECD 439

Serious Eye Damage/Eye Irritation:

Causes serious eye irritation.

Respiratory or Skin Sensitization:

Based on our knowledge of the composition information:

DIOCTYLTIN DILAURATE (*3648-18-8*):
Not a skin sensitizer. (Mouse) ; Method: OECD 429 ; Results obtained on a similar product.

Germ Cell Mutagenicity:

In vitro: Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
Bacterial reverse mutation test: No mutagenic effect., with and without metabolic activation (Salmonella typhimurium and Escherichia coli) ; Method: OECD 471 ; Results obtained on a similar product.
In vitro gene mutations test on mammalian cells: No mutagenic effect., with and without metabolic activation (Chinese hamster lung cells) ; Method: OECD 476 ; Results obtained on a similar product.
In vitro mammalian chromosomal aberration test: No clastogenic effect., with and without metabolic activation (Chinese hamster lung cells) ; Method: OECD 473 ; Results obtained on a similar product.

In vivo: Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
Mammalian erythrocyte micronucleus test: negative (Mouse ; Male ; Oral) ; Method: OECD 474 ; Results obtained on a similar product.

Carcinogenicity:

No data available.

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: May damage the unborn child.
DIOCTYLTIN DILAURATE (*3648-18-8*):
May damage the unborn child.
Reproduction/developmental toxicity screening test: (Rat ; Female, Male ; Ingestion) ; Method: OECD 422 ; No NOAEL for reproductive toxicity as reproductive effects observed are non-specific and considered to be related to maternal toxicity. Results obtained on a similar product.

Teratogenicity: Based on our knowledge of the composition information: May damage the unborn child.
DIOCTYLTIN DILAURATE (*3648-18-8*):
NOAEL (terato): 1.4 - 2.4 mg/kg ; NOAEL (mater): 0.3 - 0.5 mg/kg (Rat ; Ingestion) ; Method: OECD 422 ; Results obtained on a similar product.

Specific Target Organ Toxicity - Single Exposure:

Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
Not classified

Specific Target Organ Toxicity - Repeated Exposure:

Based on our knowledge of the composition information: Causes damage to organs through prolonged or repeated exposure.
DIOCTYLTIN DILAURATE (*3648-18-8*):
Causes damage to organs through prolonged or repeated exposure. Oral: Target Organ(s): Immune system

Aspiration Hazard:

Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
Not classified

12. Ecological information

12.1 Toxicity:

Acute toxicity:

Fish: Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
LC 50 (Zebra danio (Danio rerio); 96 h) Method: OECD 203 ; No toxicity at the limit of solubility Results obtained on a similar product.

Aquatic Invertebrates: Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
EC 50 (Water flea (Daphnia magna); 48 h) Method: OECD 202 ; No toxicity at the limit of solubility Results obtained on a similar product.

Aquatic plants: Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
ErC50 (Green algae (Scenedesmus subspicatus); 72 h) Method: OECD 201 ; No toxicity at the limit of solubility Results obtained on a similar product.
NOEC (growth rate) (Green algae (Scenedesmus subspicatus); 72 h) Method: OECD 201 ; No toxicity at the limit of solubility Results obtained on a similar product.

Toxicity to microorganisms: No data available.

Chronic Toxicity:

Fish: No data available.

Aquatic Invertebrates: No data available.

12.2 Persistence and Degradability:

Biodegradation: Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
Method: OECD 301 F ; The product is not readily biodegradable. Results obtained on a similar product.

BOD/COD Ratio: No data available.

12.3 Bioaccumulative potential:

Bioconcentration Factor (BCF): Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
Bioconcentration Factor (BCF): 100 (Oncorhynchus mykiss ; 30 d) ; Method: OECD 305 ; The product is not considered to have a bioaccumulative potential. Results obtained on a similar product.

Partition coefficient (n-octanol/water): Based on our knowledge of the composition information:
DIOCTYLTIN DILAURATE (*3648-18-8*):
Log Kow: 9.26 ; Method: QSAR ; 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:

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.

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:
Serious eye damage or eye irritation, Reproductive toxicity, Specific target organ toxicity (single or repeated 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: No ingredient requiring a warning under CA Prop 65.

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

US. Massachusetts RTK - Substance List: No ingredient regulated by MA Right-to-Know Law present.

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

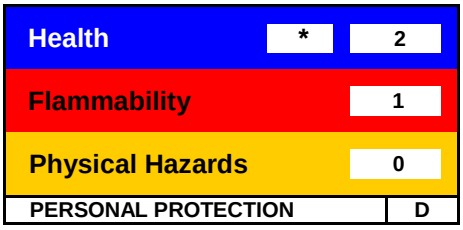
US. Rhode Island RTK: No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

US TSCA Inventory:	On or in compliance with the inventory.
Canada DSL Inventory List:	On or in compliance with the inventory.
EINECS, ELINCS or NLP:	On or in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory.
Australia AICS:	On or in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory.

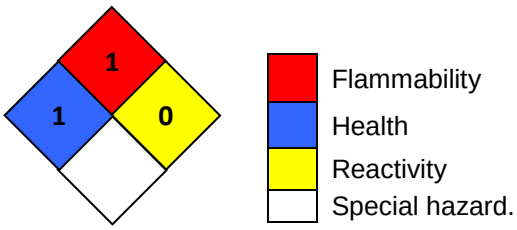
16. Other information, including date of preparation or last revision

HMIS Hazard ID:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect
D - Face Shield, Gloves & Apron

NFPA Hazard ID:



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

Issue Date: 06/14/2021

Version #: 8.1

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.