

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: BLUESIL HI PRO CLEAR

Product No.: PRCO90035908

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. Hazard identification

2.1 Classification of the substance or mixture:

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

Hazard Classification:

Physical Hazards:

Flammable liquids

Category 4

H227: Combustible liquid.

Health Hazards:

Skin sensitizer

Category 1

H317: May cause an allergic skin reaction.

Specific Target Organ Toxicity -
Repeated Exposure

Category 2

H373: May cause damage to organs through
prolonged or repeated exposure.

2.2 Label Elements:

Hazard pictograms:



Signal Word:	Warning
Hazard statements:	H227: Combustible liquid. H317: May cause an allergic skin reaction. H373: May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements:	
Prevention:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response:	P374: Fight fire with normal precautions from a reasonable distance. P302+P350+P332+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. P308+P313: IF exposed or concerned: Get medical advice/attention.
Disposal:	P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

2.3 Other hazards which do not result in GHS classification:

No data available.

3. Composition/information on ingredients

Mixtures:

General information:

Mixture of Polyorganosiloxanes, fillers, additives.

Hazardous Component(s):

Chemical name	Concentration *	Type	CAS number	Classification
Trimethoxyphenylsilane	25 - <50%	Component	2996-92-1	Flam. Liq. 3 H226; Acute Tox. 4 H302; STOT RE 2 H373;
Dimethylbis[(1-oxodecyl)oxy]stannane	1 - <2.5%	Component	68928-76-7	Acute Tox. 3 H301; Skin Irrit. 2 H315; Skin Sens. 1A H317;

* 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:

Show this Safety Data Sheet to the attending physician.

4.1 Description of first aid measures:

Inhalation:

In case of inhalation: Move person into fresh air and keep at rest. Get medical attention if symptoms occur.

Skin Contact:

Wash skin thoroughly 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 persist.

Ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water. Do not give victim anything to drink if he is unconscious. Get medical attention immediately.

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:

Product will burn under fire conditions.

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

Hazardous Decomposition Products : oxides of carbon and tin.

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:**

Provide good ventilation. Avoid inhalation of vapors, mists or dusts. Avoid contact with eyes, skin, and clothing. Prevent further leakage or spillage if safe to do so. 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:

Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment. Handle in accordance with good industrial hygiene and safety practices. Handle and open container with care. 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.

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:

Dimethylbis[(1-oxoneodecyl)oxy]stannane

Type	Exposure Limit Values	Source	Date	Remarks
PEL	- 0.1 mg/m3	OSHA Z1	02 2006	as Sn
STEL	- 0.2 mg/m3	ACGIH	2008	as Sn
TWA	- 0.1 mg/m3	OSHA Z1A	1989	as Sn
SKIN_DES	- -	NIOSH	2005	Can be absorbed through the skin. as Sn
SKIN_FINAL	- -	OSHA Z1A	1989	Can be absorbed through the skin. as Sn
TWA	- 0.1 mg/m3	ACGIH	2008	as Sn
REL	- 0.1 mg/m3	NIOSH	2005	as Sn
IDLH	- 25 mg/m3	NIOSH IDLH	10 2017	IDLH values based on the 1994 Revised Criteria
SKIN_DES	- -	ACGIH	03 2019	Danger of cutaneous absorption 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:	Wear approved chemical safety glasses. Safety glasses with side shields
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. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure limits.

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:	Viscous
Color:	Colorless
Odor:	Alcohol
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. Not applicable
Melting point/freezing point:	No data available.
Boiling Point:	> 211 °C
Flash Point:	64 °C / 147 °F (Pensky-Martens Closed Cup)
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:	No data available.
Solubility(ies):	
Solubility in Water:	Hydrolyzes slowly on contact with water.
Solubility (other):	Acetone: Very slightly soluble Ethanol: Very slightly soluble Diethylether: Miscible (in all proportions). Aliphatic hydrocarbons: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions).
Partition coefficient (n-octanol/water):	No data available.
Self Ignition 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.
(according to EC criteria)
Particle Size: Not applicable

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:

No other information noted.

10.5 Incompatible Materials:

Strong oxidizing agents.

10.6 Hazardous Decomposition Products:

This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. 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:

TRIMETHOXYPHENYLSILANE (2996-92-1):

LOAEL: 100 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 422 ; Subacute exposure.

NOAEL: 0.620 mg/l ; (Rat ; Female, Male ; Inhalation - vapour) ; Method: OECD 412 ; Subacute exposure.

Skin Corrosion/Irritation:

Based on our knowledge of the composition information:

TRIMETHOXYPHENYLSILANE (2996-92-1):

Not irritating (Rabbit) ; Method: OECD 404

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

Irritating. (EpiDerm™ Human Skin Model) ; Method: OECD 439

not corrosive to the skin (EpiDerm™ Human Skin Model) ; Method: OECD 431

Serious Eye Damage/Eye Irritation:

Based on our knowledge of the composition information:

TRIMETHOXYPHENYLSILANE (2996-92-1):

Not irritating (Rabbit) ; Method: OECD 405

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

Not irritating (Bovine, cornea) ; Method: OECD 437

Respiratory or Skin Sensitization:

Based on our knowledge of the composition information: May cause an allergic skin reaction.

TRIMETHOXYPHENYLSILANE (2996-92-1):

Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406 ; Results obtained on a similar product.

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

Skin sensitization: Skin sensitizer (Guinea Pig) ; Results obtained on a similar product.

Germ Cell Mutagenicity:

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

TRIMETHOXYPHENYLSILANE (2996-92-1):

Bacterial reverse mutation test: No mutagenic effect. (Salmonella typhimurium and Escherichia coli ; with and without metabolic activation) ; Method: According to a standardised method.

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.

(Chinese hamster lung cells) ; Method: OECD 473

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

Bacterial reverse mutation test: No mutagenic effect. (Salmonella typhimurium and Escherichia coli ; with and without metabolic activation) ; Method: OECD 471

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

TRIMETHOXYPHENYLSILANE (2996-92-1):

Mammalian erythrocyte micronucleus test: negative (Rat ; Female, Male ; Inhalation) ; Method: According to a standardised method. ; 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:

TRIMETHOXYPHENYLSILANE (2996-92-1):

Not classified

Reproduction/developmental toxicity screening test: NOAEL (parent): 500 mg/kg ; NOAEL (F1): None. ; NOAEL (F2): None. (Rat ; Female, Male ; Ingestion) ; Method: OECD 422

Teratogenicity: Based on our knowledge of the composition information:

TRIMETHOXYPHENYLSILANE (2996-92-1):

Not classified

NOAEL (terato): 500 mg/kg ; NOAEL (mater): None. (Rat ; Ingestion) ; Method: OECD 422 ; The product is not considered to be toxic for development.

Specific Target Organ Toxicity - Single Exposure:

Based on our knowledge of the composition information:

TRIMETHOXYPHENYLSILANE (2996-92-1):

Not classified

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

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

Specific Target Organ Toxicity - Repeated Exposure:

Based on our knowledge of the composition information: May cause damage to organs through prolonged or repeated exposure.

TRIMETHOXYPHENYLSILANE (2996-92-1):

May cause damage to organs through prolonged or repeated exposure. Target Organ(s): Urinary bladder

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

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

Aspiration Hazard:

Based on our knowledge of the composition information:

TRIMETHOXYPHENYLSILANE (2996-92-1):

Not classified

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

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:

TRIMETHOXYPHENYLSILANE (2996-92-1):

LC 50 (Oncorhynchus mykiss; 96 h) : > 100 mg/l ; Method: OECD 203 ; Results obtained on a similar product.

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

TRIMETHOXYPHENYLSILANE (2996-92-1):

EC 50 (Water flea (Daphnia magna); 48 h) : > 100 mg/l ; Method: OECD 202 ; Results obtained on a similar product.

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

EC 50 (Water flea (Daphnia magna); 48 h) : 39 mg/l ; Method: OECD 202

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

TRIMETHOXYPHENYLSILANE (2996-92-1):

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) : >= 100 mg/l ; Method: OECD 201 ; 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:

TRIMETHOXYPHENYLSILANE (2996-92-1):

The 10-day window requirement is not fulfilled. 0 % (activated sludge, domestic (adaptation not specified) ; 28 d) ; Method: OECD 310 ; The product is not considered to be readily biodegradable. The substance does not fulfill the criteria for ready biodegradability and ultimate aerobic biodegradability. Results obtained on a similar product.

DIMETHYLBIS[(1-OXONEODECYL)OXY]STANNANE (68928-76-7):

The 10-day time window does not apply to complex, multi-constituent substances with structurally similar constituents. 0 % (activated sludge, domestic (adaptation not specified) ; 28 d) ; Method: OECD 301 B ; The product is not readily biodegradable. The substance does not fulfill the criteria for ready biodegradability and ultimate aerobic biodegradability.

BOD/COD Ratio: No data available.

12.3 Bioaccumulative potential:

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

TRIMETHOXYPHENYLSILANE (2996-92-1):

The product is not considered to have a bioaccumulative potential.

Partition coefficient (n-octanol/water):

No data available.

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.

Other information:

This product does not sustain combustion as determined by a test method specified in 49 CFR 173 - Appendix H to Part 173 Method for Sustained Combustibility.

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:

Combustible liquids, Respiratory or Skin Sensitization, 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:



This product can expose you to chemicals including: Methanol (<0.2%) 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.

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:

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.
EINECS, ELINCS or NLP:	On or in compliance with the inventory.

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

HMIS Hazard ID:

Health	*	2
Flammability		2
Physical Hazards		0
PERSONAL PROTECTION	G	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect
G - Safety Glasses, Gloves & Vapor Respirator

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:

H226	Flammable liquid and vapor.
H227	Combustible liquid.

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.

Issue Date: 06/23/2022

Version #: 11.0

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.