



Cool-Sil FG Silicone Flashing Grade

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: N/A

Date of Issue: 10/28/2021

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Cool-Sil FG Silicone Flashing Grade

Product Code: 21060

Intended Use of the Product

Silicone Sealant. For professional use only.

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

Supplier

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

The Garland Company, Inc.
209 Carrier Drive
Toronto, Ontario M9W 5Y8
T-416-747-7995 ; 800-387-5991
F-416-747-1980

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US):

Skin Irritation	Cat 2
Eye Irritation	Cat 2A
Skin Sens.	Cat 1
Carcinogenicity	Cat 2
Reprod. Tox.	Cat 2
Chronic Aquatic Tox.	Cat 3
STOT (Respiratory)	Cat 3

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

Hazard Statements (GHS-US)

: Warning
: H315: Causes skin irritation
: H319: Causes serious eye irritation
: H317: May cause an allergic skin reaction
: H351: Suspected of causing cancer
: H361: Suspected of damaging fertility or the unborn child
: H335: May cause respiratory irritation
: H412: Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

: P201: Obtain special instructions before use.
: P202: Do not handle until all safety precautions have been read and understood.
: P261: Avoid breathing dust/fume/gas/mist/vapors/spray
: P264: Wash hands thoroughly after handling
: P270: Do not eat, drink, or smoke when using this product

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P271: Use only outdoors or in a well-ventilated area
P272: Contaminated work clothing should not be allowed out of the workplace
P273: Avoid release to the environment
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection
P308+P313: IF exposed or concerned: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of water
P321: Specific treatment (See Section 4 of this SDS)
P333+P313: If skin irritation or rash occurs: Get medical advice/attention
P362+P364: Take off contaminated clothing and wash it before reuse
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minute. Remove contact lenses, if present and easy to do. Continue rinsing
P33+P313: If eye irritation persists: Get medical advice/attention
P312: Call a POISON CENTER/doctor if you feel unwell
P403+P233: Store in a well-ventilated place. Keep container tightly closed
P405: Store locked up
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION
Liquid Silicone Polymer	TS		Not listed	40-50%	Not Classified
Nepheline Syenite	37244-95-5	609-369-8	Not listed	25-35%	H335: STOT SE Cat 3 (Resp Irrit)
Polydimethylsiloxane	63148-62-9	613-156-5	Not Listed	5 – 15%	Not Classified
Titanium Dioxide	13463-67-7	236-675-5	0338	1 – 10%	CARC. CAT 2
2-Butanone,O,O', O"- (Methylsilylydyne)Trioxime	22984-54-9	245-366-4	Not Listed	1 – 10%	SKIN IRRIT CAT 2, EYE IRRIT. CAT 2A,SKIN SENS CAT 1
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	0310	1 – 10%	REPR. CAT 2, AQUATIC CHRONIC CAT 2
Silicon Dioxide	112945-52-5	601-216-3	Not Listed	1 - 10%	SKIN IRRIT CAT 2, EYE IRRIT. CAT 2A, STOT SE CAT 3 (RESP IRRIT)
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

Composition Comments: Exact concentrations and chemical identities of ingredients not listed above are either classified as non-hazardous or are withheld as a trade secret as covered by OSHA's Hazard Communication Standard, 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: If you feel unwell, seek medical advice (show the label where possible).

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

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Skin Contact: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

Eye Contact: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

Ingestion: Do NOT induce vomiting. Adverse effects not expected from this product

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

Advice for Firefighters

Fire Fighting Procedures: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray to disperse vapors and protect those stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing includes helmets, protective boots, and gloves will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

Environmental precautions

Environmental precautions: Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain spilled material if possible. Absorb with materials such as: Dirt. Vermiculite. Sand.

Methods for Cleaning Up: Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

Reference to Other Sections: For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

General Handling: Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink, and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Suspected of causing cancer. May damage fertility. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

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Advice on General Occupational Hygiene: Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for Safe Storage

General: Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed in a cool, well ventilated place. Keep containers upright. Protect containers from damage. This product polymerizes when in contact with moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	WEEL
Liquid Silicone Polymer	TS	Not Listed	Not Listed	Not Listed
Nepheline Syenite	37244-95-5	Not Listed	Not Listed	Not Listed
Polydimethylsiloxane	63148-62-9	Not Listed	Not Listed	Not Listed
Titanium Dioxide	13463-67-7	10 mg/m ³	10 mg/m ³	10 mg/m ³
2-Butanone, O,O', O"- (Methylsilylydyne)Trioxime	22984-54-9	Not Listed	Not Listed	Not Listed
Octamethylcyclotetrasiloxane	556-67-2	Not Listed	Not Listed	Not Listed
Silicon Dioxide	112945-52-5	6 mg/m ³	10 mg/m ³	3 mg/m ³ Respirable dust

Control Parameters

Occupational Exposure Limits

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

PHYSICAL STATE:	Liquid
APPEARANCE & ODOR:	White liquid with a slight odor
ODOR THRESHOLD (PPM):	Not Available

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FLASH POINT:	Not Available
AUTOIGNITION TEMPERATURE:	Not Established
VAPOR PRESSURE (mmHg):	Not Available
VAPOR DENSITY:	Not Available
EVAPORATION RATE (nBuAc = 1):	<1
BOILING POINT (C°):	Not Available
FREEZING POINT (C°):	Not Available
pH:	Not Available
SPECIFIC GRAVITY 20°C: (WATER =1)	Not Available
SOLUBILITY IN WATER (%)	Negligible
EXPLOSIVE PROPERTIES:	Not Available
OXIDISING PROPERTIES:	Not Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No additional information available.

Chemical Stability: Stable under recommended storage conditions. See Storage, Section 7.

Possibility of Hazardous Reactions: No potentially hazardous reactions known.

Conditions to Avoid: None known.

Incompatible Materials: None known.

Hazardous Decomposition Products: Does not decompose when used and stored as recommended. Thermal decomposition may produce harmful gases or vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

TOXICITY DATA: Toxicity data is available for this product:

Chemical Name	CAS#	Oral LD50	Dermal LD50	Inhalation LC50
Liquid Silicone Polymer	TS	No Data	No Data	No Data
Nepheline Syenite	37244-95-5	No Data	No Data	No Data
Polydimethylsiloxane	63148-62-9	No Data	No Data	No Data
Titanium Dioxide	13463-67-7	>10000 mg/kg	No Data	No Data
2-Butanone,O,O', O'- (Methylsilylidyne)Trioxime	22984-54-9	No Data	No Data	No Data
Octamethylcyclotetrasiloxane	556-67-2	1540 mg/kg	>2400 mg/kg	>12.7 mg/kg/4 Hr
Silicon Dioxide	112945-52-5	3160 mg/kg	No Data	No Data

Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion / irritation	Skin Irritation Category 2
Serious eye damage / irritation	Eye Irritation Category 2A
Respiratory or skin sensitization	Skin Sensitization Category 1
Germ cell mutagenicity	Based on available data, the classification criteria are not met

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1Carcinogenicity	Carcinogenicity Category 2
Reproductive toxicity	Reproductive Category 2
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	STOT RE Category 3
Aspiration hazard	Based on available data, the classification criteria are not met

SUSPECTED CANCER AGENT: One or more of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore are considered to be, or suspected to be a cancer-causing agent by these agencies.

Titanium dioxide (13463-67-7), Carbon Black (1333-86-4)

ACGIH: A4 – Not classifiable as a Human

CarcinogenNIOSH: Potential occupational carcinogen

IARC: Monograph 93 posted, Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin, eyes, and respiratory system.

SENSITIZATION OF PRODUCT: This product is considered a skin sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: Octamethylcyclotetrasiloxane CAS# 556-67-2 is listed by the European Chemical Commission as a reproductive hazard causing harmful effects to fertility or the unborn child.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Specific Component Data:

Octamethylcyclotetrasiloxane (556-67-2)Test & Species
96 Hr LC50 Brachydanio rerio >500 mg/L
96 Hr LC50 Lepomis macrochirus >1000 mg/L
24 Hr EC50 Daphnia magna 25.2 mg/L

Persistence and Degradability

No known applicable information.

Mobility in Soil

Mobility in Soil: In the aquatic and terrestrial environment, movement is expected to be limited.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Waste generation should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Unused and Contaminated Product: Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : Not Regulated

Hazard Class :

Identification Number :

Packing Group :

14.2 In Accordance with IMDG

Proper Shipping Name : Not Regulated

Hazard Class :

Identification Number :

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Packing Group :

14.3 In Accordance with IATA

Proper Shipping Name : Not Regulated

Hazard Class :

Identification Number :

Packing Group :

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

OSHA 29 CFR 1910-1200 – See section 2

TSCA – All components of this product are listed on TSCA Inventory.

CERCLA Reportable Quantity – Not applicable

SARA Title III: Section 302 Extremely Hazardous Substances – None

Section 304 – Not applicable.


Section 311/312 – Acute health and Chronic Health

Section 313 – None

RCRA – Refer to section 13.

US State Regulations

California Proposition 65 Carcinogens:

 **WARNING** This product contains Titanium Dioxide which is known to the State of California as a cancer hazard if in respirable form. For more information, go to WWW.P65Warning.ca.gov.

SECTION 16: OTHER INFORMATION

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Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document : The Garland Company, Inc.
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This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

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