Silicone Gel

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / March 26, 2012 / Rules and Regulation

Revision Date: 08/18/2020
Supersedes: 08/06/2018

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Silicone Gel
Synonyms: No data available
INCI Name: Cyclopentasiloxane, dimethicone/vinyltrimethylsiloxysilicate crosspolymer
CAS Number: 541-02-6, 556-67-2
Formula: No data available
Product Form: Gel
Product Use: Cosmetic use

Distributor: MakingCosmetics Inc.
Address: 10800 231st Way NE
Redmond, WA 98053 (USA)
Phone / Fax: 425-292-9502 / 425-292-9601
Web: **www.makingcosmetics.com**

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Flammable liquids, Category 4
Signal Word: **WARNING**
GHS Hazard Pictograms: None
GHS Hazard Statements: H227: Combustible liquid.
GHS Precautionary Statements:
P103: Read label before use.
P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P280: Wear protective gloves/eye protection/face protection.
P243: Take action to prevent static discharges.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P370 + P378: In case of fire use water spray, extinguishing powder, foam, or carbon dioxide to extinguish.
P403 + P235: Store in a well-ventilated place. Keep cool.
P404: Store in a closed container.
P501: Dispose of contents/container to waste disposal.

Potential Health Hazards:
Eyes: May cause eye irritation.
Inhalation: May cause respiratory irritation.
Skin: May cause skin irritation.
Ingestion: May cause irritation.

NFPA Ratings (704):

Health	N/A	N/A
Flammability	N/A	N/A
Reactivity	N/A	N/A
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Cyclopentasiloxane	541-02-6	Not Available	Not Available
Dimethicone/vinyltrimethylsiloxysilicate crosspolymer	556-67-2	Not Available	Not Available

4 FIRST AID MEASURES

Eyes: In case of eye contact, immediately hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention if necessary.
Inhalation: If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if necessary.
Skin: For skin contact, immediately wipe away excess material. Use a waterless hand cleaner to remove as much

Ingestion:	of the remaining material as possible. Wash with soap and water. Seek medical attention if necessary. If conscious, give several glasses of water. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If vomiting does occur, give additional fluids. If unconscious, place in stable sideways position. Seek medical attention if symptoms occur.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperature. Use appropriate media (AFFF alcohol compatible foam, carbon dioxide) for adjacent fire. Water may be used to cool tanks and structures adjacent to the fire. Water may be ineffective in controlling fires of this material. Do not use water to fight these fires.
Special protective equipment & precautions for firefighters:	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.
Flash Points:	63°C/145°F (ASTM D93) 78°C/172°F (ASTM D3278, DIN 55680, ISO 3679)
Fire and explosion hazards:	Caution! OSHA Combustible liquid and vapor. Vapors are heavier than air and may travel along the ground, be moved by ventilation systems, settle in pits or low areas, and be ignited by ignition sources distant from the handling point. The material is lighter than water, burning spilled material will float on top of any water released from hose or sprinkler systems spreading the fire beyond the initial fire response area. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. See also Stability and Reactivity section.
Specific hazards arising from the chemical:	Hazardous decomposition products: carbon monoxide, carbon dioxide, silicon dioxide, formaldehyde, various hydrocarbon fragments.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment. Avoid inhaling mists and vapors. Avoid contact with eyes and skin. **HAZWOPER PPE Level**: D.
Environmental precautions:	Avoid liquid release into sewers/public water. Notify environmental authorities in case of large leaks. Spills of material which could reach surface waters must be reported to the US Coast Guard National Response Center's toll-free phone number (800) 424-8802.
Methods and material for containment and cleaning up:	Do not flush away with water. For small amounts: absorb with a liquid binding material such as diatomaceous earth and dispose of all waste and cleanup materials in accordance with regulations. Contain larger amounts and pump into suitable containers.

7 HANDLING & STORAGE

Precautions for safe handling:	See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use. Keep away from sources of ignition and do not smoke. In partly emptied containers, formation of explosive mixtures is possible. Take precautionary measures against electrostatic charging. Ignitable vapors may be released during processing or curing.
Conditions for safe storage, incl. any incompatibilities:	Keep container tightly closed and store in cool, dry well-ventilated area to prevent exposure to water or moist air, and to limit the accumulation of vapors released from vented or unsealed containers. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Silicone Gel	Not available		

TWA: Time Weighted Average over 8 hours of work.
TLV: Threshold Limit Value over 8 hours of work.
REL: Recommended Exposure Limit
PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
IDLH: Immediately Dangerous to Life or Health
WEEL: Workplace Environmental Exposure Levels
CEIL: Ceiling

Personal Protection:

Eyes:	Safety glasses with side shields or chemical safety goggles should be worn.
Inhalation:	Respiratory protection is not normally required. Use only with adequate ventilation. To control flammable/combustible vapors: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the points of use.
Body:	Any liquid-tight rubber or vinyl gloves should be worn.
Other:	Use good personal hygiene practices. Avoid contact with eyes, skin, and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. When handling do not eat, drink, smoke, or apply cosmetics. Wash thoroughly after handling. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, cloudy, semi-liquid gel	**Vapor Pressure:**	1.3 hPa (@ 20°C/68°F)
Odor:	Slight, characteristic	**Density:**	0.94 g/cm^3
Odor Threshold:	No data available	**Evaporation Rate:**	0.90
Color:	Clear, cloudy	**Flammability:**	No data available
Molecular Weight:	No data available	**Upper/lower Explosive Limit:**	Not determined
pH:	Not applicable	**Flash Point:**	63°C/145°F (ASTM D93) 78°C/172°F (ASTM D3278, DIN 55680, ISO 3679)
Boiling Point:	210°C (410°F) at 1013 hPa	**Specific Gravity @ 25°C:**	1.05-1.20
Melting Point:	44°C (111°F)	**Solubility in Water:**	Virtually insoluble
Relative Density:	No data available	**Auto-Ignition Temperature:**	385°C (725°F)
Partition Coefficient: n-octanol/water:	No data available	**Decomposition Temperature:**	No data available
Viscosity (dynamic):	100000 mPas (@ 25°C/77°F)	**Explosive Properties:**	No data available
Oxidizing Properties:	No data available	**Freezing Point:**	No data available
% Volatiles:	80%	**Corrosive to Steel/Aluminum:**	Not corrosive to steel or aluminum

10 STABILITY AND REACTIVITY

Reactivity:	If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
Chemical Stability:	Stable under normal conditions of use.
Hazardous Polymerization:	Cannot occur.
Conditions to Avoid:	Although this product is not expected to react with commonly used materials of construction and process equipment, it is advised that any rubber or plastic items such as hoses and gaskets be tested prior to large scale processing to ensure there is no degradation or performance or durability. Keep away from incompatible substances. Heat, open flames, and other sources of ignition.
Incompatible Materials:	Oxidizing materials (oxygen, oxidizers, peroxides, etc.)
Hazardous Decomposition Products:	Measurements have shown the formation of small amounts of aldehyde at temperatures above about 150°C (302°F) through oxidization.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	ATE_{mix}(oral): >2000 mg/kg
Skin:	LD50: >2000 mg/kg (OECD 402)
Eyes:	Not irritating (OECD 405)
Respiratory:	Spray: LC50: 8.67 mg/L (4h) (OECD 403) Vapor: LC50: >545 ppm (4h) (OECD 403)
Ingestion:	LD50: >5000 mg/kg (OECD 401)
Carcinogenicity:	NOAEC: 40 ppm (EPA OPPTS 870.4300)
Teratogenicity:	No data available
Germ Cell Mutagenicity:	Not mutagenic (OECD 471, OECD 476, OECD 473, OECD 474, OECD 486)
Embryotoxicity:	No data available
Specific Target Organ Toxicity:	NOAEL: ≥1000 mg/kg (OECD 408) NOAEL: ≥160 ppm (OECD 453) NOAEL: ≥1600 mg/kg (OECD 410)

Reproductive Toxicity:	NOAEL: ≥160 ppm (EPA OPPTS 870.3800)
Respiratory/Skin Sensitization:	Not sensitizing (OECD 429)
Corrosivity:	Not irritating (OECD 404)
Sensitization:	No data available
Irritation:	Not irritating (OECD 404)
Repeated Dose Toxicity:	No data available

12 ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate:	Cyclopentasiloxane: LC50: >16 µg/L (measured) (*Oncorhynchus mykiss*) (96h) (OECD 204) NOEC: ≥14 µg/L (measured) (*Oncorhynchus mykiss*) (90d) (OECD 210)
Aquatic Invertebrate:	Cyclopentasiloxane: EC50: >2.9 µg/L (measured) (*Daphnia magna*) (48h) (OECD 202) NOEC (reproduction): ≥15 µg/L (measured) (*Daphnia magna*) (21d) (OECD 211) NOEC (growth rate): >12 µg/L (measured) (*Pseudokircheriella supcapitata*) (72h) (OECD 201)
Terrestrial:	Cyclopentasiloxane: EC50: >2000 mg/L (nominal) (Sludge) (3h)
Persistence and Degradability:	Biodegradation: 0.14% / 28d (CO_2 formation) Not readily biodegradable. (OECD 310) Hydrolysis: Half-life: 1,590h: pH 7 @ 25°C (OECD 111) Half-life: 9.3h: pH 4 @ 25°C (OECD 111) Half-life: 24.8-31.6h: pH 9 @ 25°C (OECD 111)
Bioaccumulative Potential:	Bioconcentration factor (BCF): 16200 (*Pimephales promelas*) (35d, 22°C, 1.1 µg/L) (OECD 305)
Mobility in Soil:	Adsorption – Desorption Using Batch Equilibrium Method: log K_{OC}: 5.17 (OECD 106)
PBT and vPvB Assessment:	No data available
Other Adverse Effects:	None known

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	DOT regulated as a Combustible Liquid when packaged in bulk containers (>119 Gal). Not regulated in containers up to 119Gal/450L each.
TDG (Transportation of Dangerous Goods, Canada):	Not regulated for transport.
IMDG (International Maritime Dangerous Goods):	Not regulated for transport.
IATA (International Air Transport Association):	Not regulated for transport.
ICAO (International Civil Aviation Organization):	Not regulated for transport.

15 REGULATORY INFORMATION

TSCA Inventory Status:	Not all ingredients are listed on the TSCA Inventory. This material is exempt from TSCA regulations if it is used in an application regulated solely by the FDCA. This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.
DSCL (EEC):	This product is listed in, or complies with the substance inventory.
WHMIS (Canada):	No data available
EU EINECS/ELINCS/NLP:	No data available
China IECSC:	No data available
China IECIC (06.30.2014):	No data available
Australia AICS:	This product is listed in, or complies with the substance inventory.

Japan ENCS:	This product is listed in, or complies with the substance inventory.
Philippines PICCS:	This product is listed in, or complies with the substance inventory.
Taiwan (Republic of China) TSCI:	This product is listed in, or complies with the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TSCI-listed or TSCI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA):	REACH (Regulation (EC) No 1907/2006): General note: The registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customs or other downstream users must be fulfilled by the latter,
CERCLA Regulated Chemicals:	This material does not contain any CERCLA regulated chemicals.
SARA 302 EHS Chemicals:	This material does not contain any SARA extremely hazardous substances.
SARA 311/312 Hazard Class:	Fire hazard
SARA 313 Chemicals:	This material does not contain any SARA 313 chemicals above De Minimis levels.
HAPS (Hazardous Air Pollutants):	This material does not contain any hazardous air pollutants.
California Prop. 65:	This material does not contain any chemicals known to the State of California to cause cancer or other reproductive effects.
Massachusetts Substance List:	This material contains no listed components
New Jersey RTK Hazardous Substance List:	This material contains no listed components
Pennsylvania RTK Hazardous Substance List:	This material contains no listed components

16 OTHER INFORMATION

Revision Date:	08/18/2020
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness & completeness of such information for his own particular use.