SF1202
SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: SF1202

Other means of identification
Synonyms: Decamethylcyclopentasiloxane

Recommended use and restriction on use
Recommended use: Industrial use Cosmetic ingredient Raw material for silicone elastomers
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information:

SILYCOM S.A DE C.V
Miguel Hidalgo S/N INT 9
San Nicolas Tolentino,Toluca, Méx, CP 50230

Correo: sfsilycom@hotmail.com
Teléfono 722 481 3280

2. Hazard(s) identification

Hazard Classification

Physical Hazards
Flammable liquids Category 4

Label Elements

Hazard Symbol: No symbol

Signal Word: Warning

Hazard Statement: H227: Combustible liquid.

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: P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P370+P378: In case of fire, use sand, dry chemical or alcohol-resistant foam.

P403: Store in a well-ventilated place.
P235: Keep cool.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Substances

Composition information of impurities and stabilizers

Chemical Identity	CAS number	Content in percent (%)*
Octamethylcyclotetrasiloxane	556-67-2	0.5 - 5%

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

4. First-aid measures

General information: No action shall be taken involving any personal risk or without suitable training.

Inhalation:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms persist.
Skin Contact:	Wash area with soap and water. Get medical attention if symptoms occur.
Eye contact:	After contact with eyes rinse thoroughly with plenty of lukewarm water. Get medical attention if symptoms occur.
Ingestion:	Do NOT induce vomiting. Do not give victim anything to drink if he is unconscious. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms:	No data available.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	No data available.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Carbon dioxide Foam. Water spray
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
Specific hazards arising from the chemical:	Vapours may form explosive mixture with air. May travel considerable distance to source of ignition and flash back. In case of fire, carbon monoxide and carbon dioxide may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Move container from fire area if it can be done without risk. Cool fireendangered containers with water.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Caution: Contaminated surfaces may be slippery. See Section 8 of the SDS for Personal Protective Equipment. Remove sources of ignition. Keep upwind. Keep unprotected persons away.
For non-emergency personnel:	Caution: Contaminated surfaces may be slippery. Pay attention to the risk of combustion by fire or other sources of ignition.
For emergency responders:	Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Use standard firefighting procedures and consider the hazards of other involved materials.
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material. Sweep up spilled substance and remove to safe place. Remove sources of ignition.
Environmental Precautions:	Do not allow runoff to sewer, waterway or ground.
Prevention of secondary hazards:	Take any precaution to avoid mixing with combustibles and other incompatible materials.

7. Handling and storage

Precautions for safe handling:	Product may charge electrostatically during pouring or filling. Ground and bond container and receiving equipment. Do not get in eyes, on skin, on clothing. Do not taste or swallow. See Section 8 of the SDS for Personal Protective Equipment. Wash hands after handling.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed and in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Use original container or packaging of similar material of construction

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information:	Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for nonroutine or emergency situations.
Eye/face protection:	Safety glasses with side shields
Skin Protection Hand Protection:	Chemical resistant gloves
Other:	Wear rubber boots. Chemical resistant clothing
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.

Hygiene measures:	Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Faint
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	76.6 °C (Closed Cup) Product does not sustain combustion.
Evaporation rate:	< 1
Flammability (solid, gas):	This product is not flammable.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available
Flammability limit - lower (%):	No data available
Explosive limit - upper (%):	No data available
Explosive limit - lower (%):	No data available
Heat of combustion:	No data available
Vapor pressure:	0.16 hPa (20 °C)
Vapor density:	No data available.
Density:	0.964 g/cm3 (15 °C) (No data available.) 0.927 g/cm3 (50 °C) (DIN 51757) 0.96 g/cm3 (20 °C) (DIN 51757) 0.95 g/cm3 (25 °C) (DIN 51757)
Relative density:	0.95
Solubility(ies)	
Solubility in water:	immiscible
Solubility (other):	Soluble in toluene
Partition coefficient (n-octanol/water) Log Pow:	8.02
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.

SADT	No data available.
Viscosity, dynamic	4 mPa·s20 °C
Viscosity, kinematic	No data available.
Other information	
Minimum ignition temperature:	450 °C (1.013 hPa)
Explosive properties:	Not classified

10. Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
Conditions to avoid:	Keep away from sources of ignition - No smoking.
Incompatible Materials:	Strong Acids, Strong Bases Oxidizing agents.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral **Product:**	LD 50 (Rat): > 5,000 mg/kg
Specified substance(s): Octamethylcyclotetrasiloxane	LD 50 (Rat): 4,800 mg/kg
Dermal **Product:**	LD 50 (Rabbit): > 2,000 mg/kg
Specified substance(s): Octamethylcyclotetrasiloxane	LD 50 (Rat): > 2,400 mg/kg
Inhalation **Product:**	LC50 (Rat): 8.67 mg/l
Specified substance(s): Octamethylcyclotetrasiloxane	LC50 (Rat): 36 mg/l
Repeated dose toxicity **Product:**	NOAEL (Rabbit, Dermal, 21 d): > 1,000 mg/kg Product has been tested. NOAEL (Rat(male and female), Oral, 90 d): >= 1,000 mg/kg Information refers to the main component. NOAEL (Rat(male and female), Inhalation - vapor, 28 d): >= 1,600 mg/kg Information refers to the main component.
Skin Corrosion/Irritation **Product:**	Not irritating (Rabbit, 72 h): No skin irritation
Serious Eye Damage/Eye Irritation **Product:**	Not irritating Rabbit, 72 h: Non irritating
Respiratory or Skin Sensitization **Product:**	Bühler-Patch-Test skin sensitisation on guinea pigs: negative Bühler-Patch-Test skin sensitisation on guinea pigs: negative Product has been tested. LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA): Non sensitizing. Information refers to the main component.
Carcinogenicity **Product:**	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

Germ Cell Mutagenicity

In vitro **Product:**	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Information refers to the main component. Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guidline 476)): negative (not mutagenic) Information refers to the main component. Chromosomal aberration (OECD 473): negative (not mutagenic) Information refers to the main component.
In vivo **Product:**	OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (Mouse): negative (not mutagenic) Information refers to the main component.

Reproductive toxicity
Product: **No data available**

Specific Target Organ Toxicity - Single Exposure
Product: **No data available.**

Specific Target Organ Toxicity - Repeated Exposure
Product: **No data available.**

Aspiration Hazard
Product: **No data available.**

Other effects: **No data available.**

Specified substance(s):

Octamethylcyclotetrasiloxane:

Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day,14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In

inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: **No data available.**

Aquatic Invertebrates
Product: **No data available.**

Chronic hazards to the aquatic environment:

Fish
Product: **No data available.**

Aquatic Invertebrates
Product: **No data available.**

Toxicity to Aquatic Plants
Product: **No data available.**

Persistence and Degradability

Biodegradation
Product: **0.14 % (28 d, OECD Test Guideline 310) Information refers to the main component.**

BOD/COD Ratio
Product: **No data available.**

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: Fathead Minnow, Bioconcentration Factor (BCF): 7,060 (OECD Test Guideline 305) Information refers to the main component.

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: 8.02 23 °C

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
Octamethylcyclotetrasiloxane No data available.

Other adverse effects: No data available.