SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-T-59853
Product Name	Octamethylcyclotetrasiloxane
CAS No.	556-67-2
Category	Intermediate
Synonyms	2,2,4,4,6,6,8,8-octamethyl-1,3,5,7,2,4,6,8-tetraoxatetrasilocane; Cyclomethicone 4
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email **sales@clearsynth.com** for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

2.2 Label Elements

Signal Word: Warning

Hazard Statement(s)

Code	Statement
H410	Not available
H226	Not available
H361	Not available
H413	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P318	Not available
P391	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio
P210	Not available
P233	Not available
P240	Not available
P241	Not available
P242	Not available
P243	Not available
P303+P361+P353	Not available
P370+P378	Not available
P403+P235	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Octamethylcyclotetrasiloxane
CAS Number : 556-67-2
Molecular Formula : C8H24O4Si4
Molecular Weight : 296.62
Parent Chemical : -
Synonyms : 2,2,4,4,6,6,8,8-octamethyl-1,3,5,7,2,4,6,8-tetraoxatetrasilocane; Cyclomethicone 4
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

- General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or if you feel unwell.
- Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.
- Skin contact: Wash with plenty of soap and water. Get medical attention if irritation develops or persists.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed
- Not available.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically. No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
- Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture
- Hazardous combustion products: Not available.

5.3 Advice for firefighters
- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers exposed to fire with water spray from a safe distance.
- Prevent fire-fighting water from entering drains or watercourses.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Avoid contact with skin and eyes.
- Ensure adequate ventilation.
- Use appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions
- Avoid release to the environment.
- Prevent entry into drains, surface waters, or soil.

6.3 Methods and material for containment and cleaning up
- Contain spill.
- Absorb with inert absorbent material.
- Collect into suitable, properly labeled containers for disposal.
- Clean spill area after material pickup.

6.4 Reference to other sections
- See Section 8 for personal protective equipment and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Avoid breathing vapors/mists.
- Avoid contact with skin, eyes, and clothing.
- Use only with adequate ventilation.
- Keep containers tightly closed when not in use.
- Practice good industrial hygiene.

7.2 Conditions for safe storage, including any incompatibilities
- Store in a cool, dry, well-ventilated place.
- Keep container tightly closed.
- Protect from physical damage.
- Incompatible materials: Not available.

7.3 Specific end use(s)
- Intermediate. No further information available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
- Occupational exposure limits: Not available.
- Biological limit values: Not available.

8.2 Exposure controls
- Engineering controls: Provide adequate general and/or local exhaust ventilation to control airborne levels.
- Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles as appropriate.
- Skin protection: Wear protective gloves. Wear protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection.
- Hygiene measures: Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available

Test	Result
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

SECTION 10: Stability and reactivity

10.1 Reactivity
- No data available.

10.2 Chemical stability
- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
- No data available.

10.4 Conditions to avoid

- Not available.

10.5 Incompatible materials
- Not available.

10.6 Hazardous decomposition products
- Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: Normal volunteers were exposed to 10 ppm D4 or air for 1 hr via a mouthpiece using a double-blind, crossover study design; in these short-term, controlled human exposures, no immunotoxic or proinflammatory effects of respiratory exposure to D4 were found. Administration of D4 alone produced lethality in mice; D4-treated mice also exhibited pulmonary and hepatic lesions and elevated serum enzymes. LC50 (rat) = 36,000 mg/m3/4h
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: D4 does not possess significant in vitro genotoxic potential. No adverse genetic findings were seen in the in vivo screen for chromosome aberrations.
- Carcinogenicity: The possibility that women who receive breast implants for cosmetic purposes have increased long-term risks of developing cancer continues to be debated. A prospective cohort study of women who received breast implants concluded that women undergoing cosmetic breast augmentation do not appear to be at an increased long-term risk of developing cancer; no increased risks were observed among the implant population for any of the other cancer sites examined.
- Reproductive toxicity: Nose-only inhalation of a high concentration of D4 resulted in reversible histopathological changes in the female rat reproductive tract; lower concentrations did not elicit these same effects. In female rats exposure to D4 resulted in an increase in estradiol levels on the morning of estrus, an increase in the number of large follicles in the ovaries of treated animals and an increase in the days spent in diestrus. In a 3-month inhalation study in Fischer 344 rats, a significant decrease in ovarian weight (898 ppm) was observed in female rats; reversible histopathological changes were observed in the ovary (hypoactivity) and vagina (mucification) of female rats in the high-dose group only (898 ppm). Developmental toxicity studies in rats and rabbits (inhalation exposures to 0, 100, 300, and 700 ppm during gestation) reported no test article-related developmental toxicity, including malformation or developmental variations, in the litters of either rats or rabbits.
- STOT-single exposure: In a 3-month inhalation study in Fischer 344 rats, exposure to D4 produced a concentration-dependent increase in absolute and relative liver weight (488 to 898 ppm) and minor alterations in hematological and serum chemistry parameters; histopathological evidence indicated the primary target organs following D4 inhalation exposure to be components of the female reproductive tract, with reversible histopathological changes observed in the ovary and vagina of female rats in the high-dose group only (898 ppm).
- STOT-repeated exposure: One-month inhalation exposures of rats to high concentrations of D4 (up to 540 ppm) did not result in alterations in humoral immunity. Repeated oral exposure of rodents to D4 at high concentrations has been observed to produce immunomodulatory activity in both humoral and innate immunity; however there are concentrations below which no immunomodulation is observed. In a 3-month inhalation study in Fischer 344 rats, a concentration-dependent increase in absolute and relative liver weight (488 to 898 ppm) and minor alterations in hematological and serum chemistry parameters were observed; histopathological evidence indicated the primary target organs following D4 inhalation exposure to be components of the female reproductive tract, with reversible histopathological changes observed in the ovary and vagina of female rats in the high-dose group only (898 ppm). An increase in the incidence and severity of macrophage accumulation, interstitial inflammation, and eosinophil

infiltration was observed in the lungs of male and female rats exposed to D4; toxicological significance uncertain as other inhalation studies at similar concentrations failed to show these effects.
- Aspiration hazard: No data available.

Likely routes of exposure
- Respiratory exposure (inhalation) (normal volunteers exposed via a mouthpiece; animal inhalation studies described). No data available.

Symptoms related to the physical, chemical and toxicological characteristics
- No data available.

SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity
- No data available.

12.2 Persistence and degradability
- No data available.

12.3 Bioaccumulative potential
- No data available.

12.4 Mobility in soil
- No data available.

12.5 Results of PBT and vPvB assessment
- Not available.

12.6 Endocrine disrupting properties
- No data available.

12.7 Other adverse effects
- No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains or the environment.
- Contaminated packaging: Dispose of as unused product unless cleaned according to applicable regulations.

SECTION 14: Transport information

SECTION 14: Transport information

- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.

- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.
- Transport in bulk according to IMO instruments: Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Not available.

15.2 Chemical safety assessment
- Not available.

SECTION 16: Other information

SECTION 16: Other information

- Product name: Octamethylcyclotetrasiloxane
- CAS No.: 556-67-2
- Catalog No.: CS-T-59853
- Synonyms: 2,2,4,4,6,6,8,8-octamethyl-1,3,5,7,2,4,6,8-tetraoxatetrasilocane; Cyclomethicone 4
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

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