

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/8/2019 Revision date: 7/10/2024 Version: 3.1

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

#### 1.1. Product identifier

Product form : Substance

Substance name : PHENYLTRIMETHICONE

CAS-No. : 2116-84-9 Product code : TMS-P13

Synonyms : INCI: PHENYL TRIMETHICONE / PHENYL TRIMETHICONE; TRIMETHYL PHENYL

 ${\tt SILSESQUIOXANE\,/\,POLYDIMETHYLDIPHENYLTRIMETHYLSILYLOXYSILANE;}$ 

SILOXANES AND SILICONES; PHENYL TRIMETHYLYSILOXY;

POLYDIMETHYLDIPHENYLTRIMETHYLSILYLOXYSILOXANE; / SILSESQUIOXANE,

PHENYL TRIMETHYLSILYLOXY TERMINATED

Product group : Trade product
Chemical family : ORGANOSILOXANE

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

Restrictions on use : Not recommended for aerosols or sprays; toxic if inhaled

## 1.3. Details of the supplier of the safety data sheet

#### GELEST, INC.

11 East Steel Road Morrisville, PA 19067

**USA** 

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

## 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Acute Hazard, Category 1 H400 (M=100)

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H400 - Very toxic to aquatic life.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P391 - Collect spillage.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Substance type : Mono-constituent

Name : PHENYLTRIMETHICONE

CAS-No. : 2116-84-9

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenyl trimethicone	CAS-No.: 2116-84-9 EC-No.: 218-320-6	≥ 99	Not classified

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general	:	Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek
		medical advice immediately (show the label where possible). If possible show this sheet; if
		not available show packaging or label.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get immediate medical

advice/attention.

First-aid measures after skin contact : Remove/take off immediately all contaminated clothing. Gently wash with plenty of soap and

water. Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Consult an ophtalmologist if irritation

persists.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get

medical advice/attention.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Fatal if inhaled. Danger of serious damage to health by prolonged exposure through

inhalation. Rats exposed to lethal concentrations of aerosols exhibited labored breathing,

lacrimation nasal discharge and irregular gait.

Symptoms/effects after skin contact : May cause mild skin irritation. Seek medical advice (show the label where possible).

Symptoms/effects after eye contact : May cause mild eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Water fog. Foam. Carbon dioxide. Dry chemical. Unsuitable extinguishing media : Avoid the use of streaming water, as this may spread the fire.

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## 5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

#### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing. Do not enter fire

area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.

**SECTION 6: Accidental release measures** 

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable

protective equipment may intervene. No flames, no sparks. Eliminate all sources of ignition.

Avoid contact with skin, eyes and clothing. Do not breathe vapours, mist.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection". Breathing apparatus. Avoid breathing Do not breathe aerosol.

Emergency procedures : Evacuate unnecessary personnel. Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Avoid formation of

aerosols. Spillage of this material may create a slippery condition for foot or vehicle traffic.

Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Best stored at 25-35°C. Store

in sealed containers away from direct sunlight. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking.

Incompatible materials : Oxidizing agent. Strong acids.

Storage area : Store in a well-ventilated place. Store away from heat.

### 7.3. Specific end use(s)

No additional information available

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### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### 8.2.2.1. Eye and face protection

## Eye protection:

Chemical goggles. Contact lenses should not be worn

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Neoprene or nitrile rubber gloves

## 8.2.2.3. Respiratory protection

## Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Not available
Appearance : Clear liquid. Viscous.
Molecular mass : 372.8 g/mol

Odour : None to faint.
Odour threshold : Not available

Melting point : < -20 °C Atm. press.: 1013 hPa

Freezing point : Not available Boiling point : > 250 °C

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Flammability : Not available
Explosive limits : Not available
Lower explosion limit : Not available
Upper explosion limit : Not available
Flash point : > 100 °C

Auto-ignition temperature : 430 °C Source: ECHA

Decomposition temperature : Not available pH : Not available Viscosity, kinematic : 15 – 35 mm²/s Solubility : Insoluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available Partition coefficient n-octanol/water (Log Pow) : Source: ECHA

Vapour pressure : 0.09 Pa at 25°C Source: ECHA

Vapour pressure at 50°C : Not available

Density : Not available

Relative density : 0.97 – 0.99

Relative vapour density at 20°C : Not available

Particle characteristics : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Miscibility :  $> - \le g/100ml$  VOC content : < 0.3 % Refractive index : 1.455 - 1.465 Refractive index : 1.46 Volatility :  $\le ml/m^3$ 

Additional information : D4- Octamethylcyclotetrasiloxane (556-67-2) - <0.1%

D5- Decamethylcyclopentasiloxane (541-02-6) - <0.1% D6- Dodecamethylcyclohexasiloxane (540-97-6) - <0.1%

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable.

## 10.3. Possibility of hazardous reactions

If heated above 300°C traces of benzene (carcinogen) may form.

## 10.4. Conditions to avoid

Heat. Open flame. Sparks.

## 10.5. Incompatible materials

Oxidizing agent. Strong acids.

#### 10.6. Hazardous decomposition products

Formaldehyde. Organic acid vapors. Silicon dioxide.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified

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Acute toxicity (inhalation) : Not classified

PHENYLTRIMETHICONE (2116-84-9)		
LD50 oral rat	≥ 2000 mg/kg Source: ECHA	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
PHENYLTRIMETHICONE (2116-84-	ə)	
Viscosity, kinematic	15 – 35 mm²/s	

## 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Very toxic to aquatic life.

: Not classified

PHENYLTRIMETHICONE (2116-84-9)	
LC50 - Fish [1]	0.004 mg/l Source: ECOSAR

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

PHENYLTRIMETHICONE (2116-84-9)	
Partition coefficient n-octanol/water (Log Pow)	Source: ECHA

#### 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

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Product/Packaging disposal recommendations

- : Dispose in a safe manner in accordance with local/national regulations. Dispose of
- contents/container to licensed waste disposal facility...

Ecological information : Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name			
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	class(es)			
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatio	on available			

## 14.6. Special precautions for user

#### **Overland transport**

Not applicable

## Transport by sea

Not regulated

## Air transport

Not regulated

## Inland waterway transport

Not regulated

#### Rail transport

Not regulated

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## 15.1.1. EU-Regulations

## **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(c)	PHENYLTRIMETHICONE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

## **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

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#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### VOC Directive (2004/42)

VOC content : < 0.3 %

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List)

#### 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

## **Abbreviations and acronyms:**

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

### Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
H400	Very toxic to aquatic life.

SDS EU (REACH Annex II) - Custom v22

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