

Safety Data Sheet SIH6117.0

Issue date: 24/10/2014 Revision date: 15/09/2021 Version: 1.1

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

#### 1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : 1,1,3,3,5,5-HEXAMETHYLTRISILOXANE

Product code : SIH6117.0 Formula : C6H18O2Si3

Synonyms : METHYL 1,5-DIHYDRO-1,1,3,3-HEXAMETHYLTRSILOXANE; M'DM'

Chemical family : HYDRIDOSILOXANE

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

#### 1.2.2. Uses advised against

No additional information available

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

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**USA** 

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### 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]

Flammable liquids, Category 2 H225

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) :



GHS02

Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P210 - Keep away from heat, open flames, sparks. — No smoking.

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P240 - Ground/bond container and receiving equipment.

P370+P378 - In case of fire: Use water spray or fog, foam, carbon dioxide, dry chemical for

extinction.

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

P501 - Dispose of contents/container to licensed waste disposal facility...

#### 2.3. Other hazards

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

#### 3.1. Substances

Substance type : Mono-constituent

Name : 1,1,3,3,5,5-HEXAMETHYLTRISILOXANE

CAS-No. : 1189-93-1 EC-No. : 214-716-8

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,3,3,5,5-Hexamethyltrisiloxane	(CAS-No.) 1189-93-1 (EC-No.) 214-716-8	> 95	Flam. Liq. 2, H225

Full text of H-statements: see section 16

#### 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. If you feel unwell, seek medical

advice.

First-aid measures after skin contact : Wash with plenty of water/....

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. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects after inhalation : No information available.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : No information available.

#### 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 : None known.

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

Fire hazard : Highly flammable liquid and vapour. Irritating fumes and organic acid vapors may develop when

material is exposed to elevated temperatures or open flame.

Explosion hazard : May form flammable/explosive vapour-air mixture.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire.

Protection during firefighting : 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.

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### **SECTION 6: Accidental release measures**

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

General measures : Eliminate ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

For emergency responders 6.1.2.

Protective equipment : Equip cleanup crew with proper protection.

#### **Environmental precautions**

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

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

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

shovel spills into appropriate container for disposal. Use only non-sparking tools.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

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

#### Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Containers must be

properly grounded before beginning transfer. Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Use only

Hygiene measures Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse.

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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions Keep container tightly closed.

Incompatible materials Alkalis. Metal salts. Oxidizing agent. Precious metals. Store in a well-ventilated place. Store away from heat.

Storage area

#### 7.3. Specific end use(s)

No additional information available

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

#### **Control parameters** 8.1.

#### **Exposure controls**

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

#### 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.

#### Hand protection:

Neoprene or nitrile rubber gloves

## Eye protection:

Chemical goggles. Contact lenses should not be worn

#### Skin and body protection:

Wear suitable protective clothing

## Respiratory protection:

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

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## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear liquid.
Molecular mass : 208.48 g/mol
Colour : No data available
Odour : No data available
Odour threshold : No data available

Refractive index : 1.3811

pH : No data available

Relative evaporation rate (butylacetate=1) : > 1 Melting point : < -20 °C

Freezing point : No data available

Boiling point :  $128 \, ^{\circ}\text{C}$ Flash point :  $20 \, ^{\circ}\text{C}$ 

Auto-ignition temperature : No data available Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapour.

Vapour pressure : No data available

Relative vapour density at 20 °C : > 1
Relative density : 0.8222
% Volatiles : > 95 %

Solubility : Insoluble in water. Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) No data available No data available Viscosity, kinematic No data available Viscosity, dynamic **Explosive** properties No data available Oxidising properties No data available **Explosive limits** : No data available

## 9.2. Other information

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

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable in sealed containers stored under a dry inert atmosphere.

## 10.3. Possibility of hazardous reactions

The product can generate small amounts of hydrogen when exposed to alkalis and protic materials such as water and alcohol in combination with metal salts such as aluminum chloride or precious metals such as platinum.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

## 10.5. Incompatible materials

Alkalis. Metal salts. Oxidizing agent. Precious metals.

## 10.6. Hazardous decomposition products

Hydrogen. Formaldehyde. Carbon monoxide. Organic acid vapors. Silicon dioxide.

### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

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

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Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

Symptoms/effects after inhalation : No information available. Symptoms/effects after skin contact : May cause skin irritation. Symptoms/effects after eye contact : May cause eye irritation. Symptoms/effects after ingestion : No information available.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Hazardous to the aquatic environment, short- : Not classified

term (acute)

Hazardous to the aquatic environment, long- : Not classified

term (chronic)

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to licensed waste disposal facility.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

#### 14.1. UN number

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

#### 14.1. UN number

 UN-No. (ADR)
 : 1993

 UN-No. (IMDG)
 : 1993

 UN-No. (IATA)
 : 1993

 UN-No. (ADN)
 : 1993

 UN-No. (RID)
 : 1993

## 14.2. UN proper shipping name

Proper Shipping Name (ADR)

Proper Shipping Name (IMDG)

Proper Shipping Name (IMTA)

Proper Shipping Name (IATA)

Proper Shipping Name (ADN)

Proper Shipping Name (RDN)

Proper Shipping Name (RID)

FLAMMABLE LIQUID, N.O.S.

FLAMMABLE LIQUID, N.O.S.

Transport document description (ADR)

: UN 1993 FLAMMABLE LIQUID, N.O.S. (1,1,3,3,5,5-HEXAMETHYLTRISILOXANE), 3, II, (D/E)

Transport document description (IMDG)

: UN 1993 FLAMMABLE LIQUID, N.O.S. (1,1,3,3,5,5-HEXAMETHYLTRISILOXANE), 3, II

Transport document description (IATA)

: UN 1993 FLAMMABLE LIQUID, N.O.S. (1,1,3,3,5,5-HEXAMETHYLTRISILOXANE), 3, II

Transport document description (ADN)

: UN 1993 FLAMMABLE LIQUID, N.O.S. (1,1,3,3,5,5-HEXAMETHYLTRISILOXANE), 3, II

Transport document description (RID) : UN 1993 FLAMMABLE LIQUID, N.O.S. (1,1,3,3,5,5-HEXAMETHYLTRISILOXANE), 3, II

## 14.3. Transport hazard class(es)

ADR

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Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



#### **IMDG**

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



#### IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3



## ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3



## RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



## 14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

#### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

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#### 14.6. Special precautions for user

## - Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640C

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions : T7

(ADD)

(ADR)

Portable tank and bulk container special : TP1, TP8, TP28

provisions (ADR)

Tank code (ADR) : L1.5BN

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation : S2, S20

(ADR)

Hazard identification number (Kemler No.) : 33

Orange plates

33 1993

Tunnel restriction code (ADR) : D/E

- Transport by sea

Special provisions (IMDG) : 274

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP8, TP28

EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : B

- Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3 ERG code (IATA) : 3H

- Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 274, 601, 640C

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : F1

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Special provisions (RID) : 274, 601, 640C

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions : T7

(RID)

Portable tank and bulk container special

provisions (RID)

: TP1, TP8, TP28

Tank codes for RID tanks (RID) : L1.5BN

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 33

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

## **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

1,1,3,3,5,5-HEXAMETHYLTRISILOXANE is not on the REACH Candidate List

1,1,3,3,5,5-HEXAMETHYLTRISILOXANE is not on the REACH Annex XIV List

1,1,3,3,5,5-HEXAMETHYLTRISILOXANE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

1,1,3,3,5,5-HEXAMETHYLTRISILOXANE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

% Volatiles : > 95 %

#### 15.1.2. National regulations

Germany

Regulatory reference : Not classified according to Regulation Governing Systems for Handling Substances Hazardous

to Waters (AwSV)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed SZW-lijst van reprotoxische stoffen - : The substance is not listed Borstvoeding

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SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Ontwikkeling

Denmark

Class for fire hazard : Class I-1 Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must

be followed

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and acronyms:

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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.

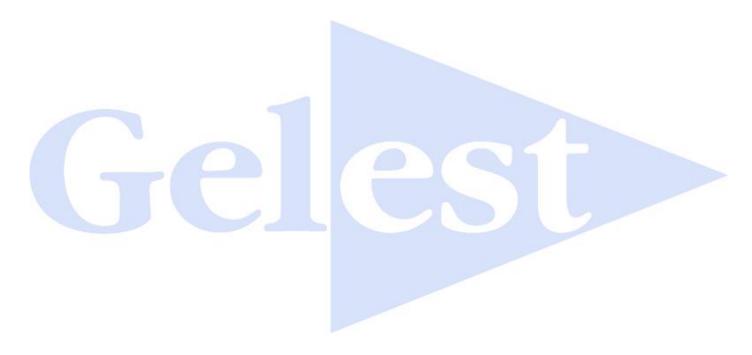
#### Full text of H- and EUH-statements:

Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.

## SDS EU (REACH Annex II) - Custom

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

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