# SAFETY DATA SHEET

Version 4.6 Revision Date 12/07/2016 Print Date 11/10/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Octamethyltrisiloxane

Product Number : 235709 Brand : Aldrich

CAS-No. : 107-51-7

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone : +1 800-325-5832 Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

**V** 

Signal word Warning

Hazard statement(s)

Pictogram

H226 Flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated

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clothing. Rinse skin with water/ shower.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction.

P391 Collect spillage.

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

P501 Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula : C<sub>8</sub>H<sub>24</sub>O<sub>2</sub>Si<sub>3</sub>

Molecular weight : 236.53 g/mol

CAS-No. : 107-51-7

EC-No. : 203-497-4

Hazardous components

Component	Classification	Concentration
Octamethyltrisiloxane		
	Flam. Liq. 3; Aquatic Chronic	<= 100 %
	1; H226, H410	

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

# If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

# 5. FIREFIGHTING MEASURES

# 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 5.2 Special hazards arising from the substance or mixture

No data available

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# 5.4 Further information

Use water spray to cool unopened containers.

#### **6. ACCIDENTAL RELEASE MEASURES**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

# 6.4 Reference to other sections

For disposal see section 13.

### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: > 480 min

Material tested:Dermatril® LR (KCL 742 / Aldrich Z677329, Size M)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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# **Body Protection**

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Form: clear, liquid a) Appearance

Colour: colourless

b) Odour No data available c) Odour Threshold No data available No data available d) рΗ

Melting point/freezing

Initial boiling point and

boiling range

153 °C (307 °F) - lit.

29 °C (84 °F) - closed cup g) Flash point

No data available h) Evaporation rate i) Flammability (solid, gas) No data available Upper/lower

flammability or explosive limits No data available

k) Vapour pressure 5.3 hPa (4.0 mmHg) at 25 °C (77 °F)

4.0 hPa (3.0 mmHg) at 20 °C (68 °F)

Melting point/range: -82 °C (-116 °F) - lit.

8.17 - (Air = 1.0)Vapour density

0.82 g/cm3 at 25 °C (77 °F) m) Relative density

n) Water solubility insoluble

Partition coefficient: n-

octanol/water Auto-ignition

log Pow: 6.6 at 25 °C (77 °F)

340 °C (644 °F) at 1,013 hPa (760 mmHg)

temperature

Decomposition No data available

temperature

0.842 mm2/s at 20 °C (68 °F) -Viscosity

s) Explosive properties No data available Oxidizing properties No data available

9.2 Other safety information

> Relative vapour density 8.17 - (Air = 1.0)

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#### 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

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Heat, flames and sparks.

# 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, silicon oxides Other decomposition products - No data available

In the event of fire: see section 5

### 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - > 2,000 mg/kg (OECD Test Guideline 423)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

No data available

# Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

# Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitisation

- Guinea pig

Result: Did not cause sensitisation on laboratory animals.

(OECD Test Guideline 406)

# Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

# Reproductive toxicity

No data available

No data available

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### Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available

### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

### 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.0194 mg/l - 96 h

(OECD Test Guideline 203)

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and

EC50 - Daphnia magna (Water flea) - > 0.020 mg/l - 48 h

other aquatic (OECD Test Guideline 202)

invertebrates Remarks: No toxicity at the limit of solubility

EC50 - Pseudokirchneriella subcapitata (green algae) - 72 h Toxicity to algae

(OECD Test Guideline 201)

Remarks: No toxicity at the limit of solubility

# 12.2 Persistence and degradability

Result: 0 % - Not biodegradable Biodegradability

(OECD Test Guideline 310)

# 12.3 Bioaccumulative potential

Bioaccumulation Pimephales promelas (fathead minnow) - 42 d

Bioconcentration factor (BCF): 5,000 - 7,700

(OECD Test Guideline 305)

Remarks: No data available

# 12.4 Mobility in soil

No data available

#### Results of PBT and vPvB assessment 12.5

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

No data available

### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

# **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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### Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

DOT (US)

UN number: 1993 Class: 3 Packing group: III Proper shipping name: Flammable liquids, n.o.s. (Octamethyltrisiloxane)

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1993 Class: 3 Packing group: III EMS-No: F-E, S-E

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Octamethyltrisiloxane)

**IATA** 

UN number: 1993 Class: 3 Packing group: III Proper shipping name: Flammable liquid, n.o.s. (Octamethyltrisiloxane)

# 15. REGULATORY INFORMATION

# **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Octamethyltrisiloxane CAS-No. Revision Date 2009-07-17

**New Jersey Right To Know Components** 

Octamethyltrisiloxane CAS-No. Revision Date 2009-07-17

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

# Full text of H-Statements referred to under sections 2 and 3.

Aquatic Chronic Chronic aquatic toxicity Flam. Liq. Flammable liquids

H226 Flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects.

**HMIS Rating** 

Health hazard: 0
Chronic Health Hazard: \*
Flammability: 3
Physical Hazard 0

**NFPA Rating** 

Health hazard: 1
Fire Hazard: 3
Reactivity Hazard: 0

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#### **Further information**

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# **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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