

Safety Data Sheet SIP6717.0
Date of issue: 17/05/2016 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : 1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE

Product code : SIP6717.0
Formula : C7H18O3Si2

Synonyms : O-PENTAMETHYLDISILOXANYLACETATE; PENTAMETHYLDISILOXANYL ACETATE; 1-

DISILOXANOL, 1,1,3,3,3-PENTAMETHYL-, 1-ACETATE

Chemical family : ORGANOSILANE

## 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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#### 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 3

Skin corrosion/irritation, Category 1B

Serious eye damage/eye irritation, Category 1

H318

Specific target organ toxicity — Single exposure, Category 3,

H335

Respiratory tract irritation

Full text of H 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





GHS05

GHS07

Signal word (CLP) : Danger

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Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P240 - Ground/bond container and receiving equipment.

P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.

P310 - Immediately call a POISON CENTER or doctor/physician

#### 2.3. Other hazards

Other hazards not contributing to the classification

: Acetic acid is liberated on contact with moisture and living tissue. The US ACGIH (TWA) for acetic acid is 10 ppm.

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

#### 3.1. Substances

Substance type : Mono-constituent

Name : 1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE

CAS-No. : 70693-47-9 EC-No. : 274-767-7

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,1,1,3,3-Pentamethyl-3-acetoxydisiloxane	(CAS-No.) 70693-47-9 (EC-No.) 274-767-7	95 - 100	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335

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/.... Get immediate 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. Get immediate medical advice/attention.

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

feel unwell.

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

Symptoms/effects : Causes severe skin burns and eye damage. Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes (severe) skin burns.

Symptoms/effects after eye contact : Causes serious eye damage.

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. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : Do not use straight streams.

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

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

material is exposed to elevated temperatures or open flame.

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#### **Advice for firefighters**

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

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.

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

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

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

6.1.1. For non-emergency personnel

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

: Evacuate unnecessary personnel. **Emergency procedures** 

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".

#### 6.2. **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

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

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

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**

#### 7.1. Precautions for safe handling

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Additional hazards when processed

smoking.

Precautions for safe handling Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and

receiving equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.

Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild Hygiene measures soap and water before eating, drinking or smoking and when leaving work.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof

electrical equipment.

Storage conditions : Keep container tightly closed. Keep in a cool place. Store locked up.

Incompatible materials : alcohols. Amines. Moisture. Oxidizing agent. Peroxides. Water.

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

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

No additional information available

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

## **Control parameters**

No additional information available

## **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 or face shield. Contact lenses should not be worn

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## 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 combination organic vapor/acid gas (yellow cartridge) respirator.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear liquid.

Molecular mass : 206.39 g/mol

Colour : No data available

Odour : Acetic acid. vinegar.

Odour threshold : No data available

Refractive index : 1.3887

pH : No data available

Relative evaporation rate (butylacetate=1) : ~ 1

Melting point : No data available

Freezing point : < 0 °C

Boiling point : 149 - 150 °C

Flash point : 40 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour.

Vapour pressure : < 25 mm Hg @ 25°C

Relative vapour density at 20 °C : > 1
Relative density : 0.9
% Volatiles : 100 %

Solubility Reacts with water. No data available Log Pow 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 : No data available Explosive limits

## 9.2. Other information

No additional information available

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

## 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

Stable in sealed containers.

## 10.3. Possibility of hazardous reactions

Reacts with water and moisture in air liberating acetic acid.

## 10.4. Conditions to avoid

Heat. Open flame. Sparks.

#### 10.5. Incompatible materials

alcohols. Amines. Moisture. Oxidizing agent. Peroxides. Water.

## 10.6. Hazardous decomposition products

Organic acid vapors.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

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Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes (severe) skin burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : May be harmful if swallowed.

Reason for classification : Expert judgment

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

#### 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

Other adverse effects : This substance may be hazardous to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

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

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

contents/container to licensed waste disposal facility.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

## 14.1. UN number

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

#### 14.1. UN number

UN-No. (ADR) : 2924 UN-No. (IMDG) : 2924 UN-No. (IATA) : 2924 UN-No. (ADN) : 2924 UN-No. (RID) : 2924

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (IATA) : Flammable liquid, corrosive, n.o.s.

Proper Shipping Name (ADN) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (RID) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1,1,1,3,3-PENTAMETHYL-3-

ACETOXYDISILOXANE), 3 (8), III, (D/E)

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Transport document description (IMDG)

UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE), 3 (8), III

Transport document description (IATA)

: UN 2924 Flammable liquid, corrosive, n.o.s. (1,1,1,3,3-PENTAMETHYL-3-

ACETOXYDISILOXANE), 3 (8), III

Transport document description (ADN)

UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1,1,1,3,3-PENTAMETHYL-3-

ACETOXYDISILOXANE), 3 (8), III

Transport document description (RID)

: UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1,1,1,3,3-PENTAMETHYL-3-

ACETOXYDISILOXANE), 3 (8), III

#### Transport hazard class(es) 14.3.

## ADR

Transport hazard class(es) (ADR) : 3 (8) Danger labels (ADR) : 3, 8



#### **IMDG**

Transport hazard class(es) (IMDG) : 3 (8) Danger labels (IMDG) : 3, 8



#### IATA

Transport hazard class(es) (IATA) 3 (8) Hazard labels (IATA) 3, 8



## ADN

Transport hazard class(es) (ADN) : 3 (8) Danger labels (ADN) : 3, 8



## RID

Transport hazard class(es) (RID) : 3 (8) Danger labels (RID) : 3, 8



## **Packing group**

: 111 Packing group (ADR) Packing group (IMDG) : 111

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Packing group (IATA) : 111 : III Packing group (ADN) : III Packing group (RID)

#### **Environmental hazards**

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

## Special precautions for user

#### - Overland transport

Classification code (ADR) : FC Special provisions (ADR) : 274 Limited quantities (ADR) : 51 Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, R001

: MP19 Mixed packing provisions (ADR) Portable tank and bulk container instructions

(ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : L4BN Vehicle for tank carriage : FL Transport category (ADR) : 3 Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Operation

(ADR)

: 38 Hazard identification number (Kemler No.)

Orange plates

38 2924

: TP1, TP28

: S2

: D/E

Tunnel restriction code (ADR)

## - Transport by sea

Special provisions (IMDG) : 223, 274 Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP1, TP28 : F-E EmS-No. (Fire) EmS-No. (Spillage) : S-C Stowage category (IMDG) : A Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

## - Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y342 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 354 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 365 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3 ERG code (IATA) : 3C

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#### - Inland waterway transport

Classification code (ADN) : FC
Special provisions (ADN) : 274
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, A

Ventilation (ADN) : VE01 Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : FC
Special provisions (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions : T7

(RID)

Portable tank and bulk container special : TP1, TP28

provisions (RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages : W12

(RID)

Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 38

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

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

No REACH Annex XVII restrictions

1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE is not on the REACH Candidate List

1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE is not on the REACH Annex XIV List

1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE 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.

1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

% Volatiles : 100 %

## 15.1.2. National regulations

## Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BlmSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen : 1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE is listed SZW-lijst van mutagene stoffen : 1,1,1,3,3-PENTAMETHYL-3-ACETOXYDISILOXANE is listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

The substance is not listedThe substance is not listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed

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Class for fire hazard : Class II-1
Store unit : 5 liter

Classification remarks : R10 <H226;H314;H335>; Emergency management guidelines for the storage of flammable

liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

## 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:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

## SDS EU (REACH Annex II) - Custom

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