



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 05/01/2018 Date of issue: 29/01/2014

Version: 2.0

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

#### 1.1. Product identifier

Product form Mixture

Product Name LS-3246 Part A Synonyms Silicone Gel

#### 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 For protection of sensitive photonics assemblies from dust,

shock and ambient atmosphere. For professional use only.

#### 1.2.2.Uses advised against

No additional information available

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

NuSil Technology LLC

1050 Cindy Lane

Carpinteria, California 93013

**USA** 

(805) 684-8780

ehs@nusil.com

www.nusil.com

#### 1.4. Emergency telephone number

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

number and Maritime)

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Not classified

#### 2.2. Label elements

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

No labelling applicable

#### 2.3. Other Hazards

No additional information available

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

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

# 4.1. Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If

you feel unwell, seek medical advice (show the label where

possible).

First-aid measures after

inhalation

When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing

difficulty persists.

First-aid measures after skin

contact

Gently wash with plenty of soap and water. Obtain medical

attention if irritation develops or persists.

First-aid measures after eye

contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

Obtain medical attention if irritation persists.

First-aid measures after

ingestion

Rinse mouth. Do NOT induce vomiting. Obtain medical

attention.

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

Symptoms/effects Not expected to present a significant hazard under

anticipated conditions of normal use.

Symptoms/effects after

inhalation

Prolonged exposure may cause irritation.

Symptoms/effects after skin

contact

Prolonged exposure may cause skin irritation.

Symptoms/effects after eye

contact

May cause slight irritation to eyes.

Symptoms/effects after

ingestion

Ingestion may cause adverse effects.

Chronic symptoms None expected under normal conditions of use.

**4.3.** Indication of any immediate medical attention and special treatment needed If exposed or concerned, get medical advice and attention. If medical advice is needed, have

product container or label at hand.

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media Water spray, dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of

water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard Not considered flammable but may burn at high

temperatures.

Explosion hazard Product is not explosive.

Reactivity Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire.

Protection during firefighting Do not enter fire area without proper protective equipment,

including respiratory protection.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures Avoid prolonged contact with eyes, skin and clothing. Avoid

breathing (vapor, mist, spray).

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Upon arrival at the scene, a first responder is expected to

recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and 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 spills immediately and dispose of waste safely.

Transfer spilled material to a suitable container for disposal.

Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal

considerations.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling Wash hands and other exposed areas with mild soap and

water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing.

Avoid breathing vapors, mist, spray.

Hygiene measures Handle in accordance with good industrial hygiene and

safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Comply with applicable regulations.

Storage conditions Keep container closed when not in use. Store in a dry, cool

place. Keep/Store away from direct sunlight, extremely high or

low temperatures and incompatible materials.

Incompatible materials Strong acids, strong bases, strong oxidizers.

7.3. Specific end use(s)

For protection of sensitive photonics assemblies from dust, shock and ambient atmosphere. For professional use only.

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

## 8.1. Control parameters

No additional information available

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#### 8.2. Exposure controls

Appropriate engineering Emergency eye wash fountains and safety showers should be controls available in the immediate vicinity of any potential exposure.

Ensure adequate ventilation, especially in confined areas.

Ensure all national/local regulations are observed.

Personal protective Gloves. Protective clothing. Protective goggles.

equipment







Chemically resistant materials and fabrics.

Materials for protective

clothing

Hand protection Wear protective gloves. Eye protection Chemical safety goggles.

Skin and body protection

Respiratory protection

**Explosive limits** 

Wear suitable protective clothing.

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved

respiratory protection.

Other information When using, do not eat, drink or smoke.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Clear
Odour : None

Odour threshold : No data available pH : No data available Relative evaporation rate : No data available

(butylacetate=1) Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : > 135 °C (275 °F) Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative Density : 1,04 (water = 1)Solubility : No data available Partition coefficient: n-octanol/water : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosive** properties : No data available Oxidising properties : No data available

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: No data available

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## 9.2. Other information

VOC content < 1 %

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

## 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

# 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Not classified

Not classified

Not classified

Not classified

STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard Not classified

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general Not classified.

## 12.2. Persistence and degradability

LS-3246 Part A	
Persistence and degradability	Not established.

# 12.3. Bioaccumulative potential

LS-3246 Part A		
Bioaccumulative potential	Not established.	

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

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#### 12.6. Other adverse effects

Other information Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal Dispose of contents/container in accordance with local,

recommendations regional, national, and international regulations.

Ecology - waste materials Avoid release to the environment.

# **SECTION 14: Transport information**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

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

ADR	IMDG	IATA	ADN	RID
14.1.UN number	•			
Not regulated for	transport			
14.2.UN proper	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gr	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmer	ntal hazards			
Dangerous for the environment : No	Dangerous for the environment: No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

## 14.6. Special precautions for user

No additional information available

# 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content < 1 %

#### 15.1.2. National regulations

No additional information available

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#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Indication of changes:

Section	Section Header	Change	Date Changed
1	Identification of the substance/mixture and of the company/undertaking	Modified	05/01/2018
2	Hazards identification	Removed DSD/DPD information.  Modified hazards.	05/01/2018
3	Composition/information on ingredients	Removed DSD/DPD information. Modified component hazards. Removed non-hazardous components and components below cut-offs.	05/01/2018
4	First aid measures	Modified	05/01/2018
8	Exposure controls/personal protection	Modified	05/01/2018
9	Information on basic physical and chemical properties	Modified	05/01/2018
11	Toxicological information	Modified	05/01/2018
15	Regulatory information	Modified	05/01/2018

Date of Preparation or Latest 05/01/2018

Revision

Data sources Information and data obtained and used in the authoring of

this safety data sheet could come from database

subscriptions, official government regulatory body websites,

product/ingredient manufacturer or supplier specific

information, and/or resources that include substance specific data and classifications according to GHS or their subsequent

adoption of GHS.

Other information According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EU) 2015/830

### **Abbreviations and Acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists ADN - European Agreement Concerning the International Carriage of

Dangerous Goods by Inland Waterways

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road ATE - Acute Toxicity Estimate BCF - Bioconcentration Factor BEI - Biological Exposure Indices (BEI) BOD - Biochemical Oxygen Demand

CAS No. - Chemical Abstracts Service Number

CLP - Classification, Labeling and Packaging Regulation (EC) No 1272/2008

COD - Chemical Oxygen Demand EC - European Community

EC50 - Median Effective Concentration EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Chemical Substances

EmS-No. (Fire) - IMDG Emergency Schedule Fire

MARPOL - International Convention for the Prevention of Pollution

NDS - Naiwyzsze Dopuszczalne Stezenie

NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration NRD - Nevirsytinas Ribinis Dydis NTP - National Toxicology Program

**OEL - Occupational Exposure Limits** PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

pH - Potential Hydrogen

REACH - Registration, Evaluation, Authorisation, and Restriction of

Chemicals

RID – Regulations Concerning the International Carriage of Dangerous

Goods by Rail

SADT - Self Accelerating Decomposition Temperature

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EmS-No. (Spillage) - IMDG Emergency Schedule Spillage

EU - European Union

ErC50 - EC50 in Terms of Reduction Growth Rate

GHS – Globally Harmonized System of Classification and Labeling of

Chemicals

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC Code - International Bulk Chemical Code IMDG - International Maritime Dangerous Goods

IPRV - Ilgalaikio Poveikio Ribinis Dydis

IOELV – Indicative Occupational Exposure Limit Value

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level LOEC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient

Log Kow - Octanol/water Partition Coefficient

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible

solvents, in this case octanol and water

MAK – Maximum Workplace Concentration/Maximum Permissible

Concentration

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit

TA-Luft - Technische Anleitung zur Reinhaltung der Luft

TEL TRK - Technical Guidance Concentrations

ThOD – Theoretical Oxygen Demand TLM - Median Tolerance Limit

TLV - Threshold Limit Value

TPRD - Trumpalaikio Poveikio Ribinis Dydis

TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von

Gefahrstoffen in ortsbeweglichen Behältern

TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine

TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte

TSCA - Toxic Substances Control Act TWA - Time Weighted Average VOC – Volatile Organic Compounds

VLA-EC - Valor Límite Ambiental Exposición de Corta Duración

VLA-ED - Valor Límite Ambiental Exposición Diaria

VLE - Valeur Limite D'exposition

VME – Valeur Limite De Moyenne Exposition vPvB - Very Persistent and Very Bioaccumulative

WEL – Workplace Exposure Limit WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

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

#### 1.1. Product identifier

Product form Mixture

Product Name LS-3246 Part B Synonyms Silicone Gel

# 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 For protection of sensitive photonics assemblies from dust,

shock and ambient atmosphere. For professional use only.

### 1.2.2. Uses advised against

No additional information available

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

NuSil Technology LLC

1050 Cindy Lane

Carpinteria, California 93013

**USA** 

(805) 684-8780

ehs@nusil.com

www.nusil.com

#### 1.4. Emergency telephone number

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

number and Maritime)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Not classified

#### 2.2. Label elements

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

EUH-statements EUH210 - Safety data sheet available on request.

#### 2.3. Other Hazards

No additional information available

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

#### 3.1. Substances

Not applicable

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#### 3.2. Mixture

Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Trisiloxane, 3-[(dimethylsilyl)oxy]-1,1,5,5-tetramethyl-3-phenyl-	(CAS-No.) 18027-45-7 (EC-No.) 241-940-3	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
3-Butyn-2-ol, 2-methyl-	(CAS-No.) 115-19-5 (EC-No.) 204-070-5	< 0,1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H-statements: see section 16

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

# 4.1. Description of first aid measures

First-aid measures general Never give	anything by mouth to an unconscious person. If
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you feel unwell, seek medical advice (show the label where

possible).

First-aid measures after When symptoms occur: go into open air and ventilate

suspected area. Obtain medical attention if breathing

difficulty persists.

First-aid measures after skin

contact

inhalation

Gently wash with plenty of soap and water. Obtain medical

attention if irritation develops or persists.

First-aid measures after eye

contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

Obtain medical attention if irritation persists.

First-aid measures after

ingestion

Rinse mouth. Do NOT induce vomiting. Obtain medical

attention.

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

Symptoms/effects Not expected to present a significant hazard under

anticipated conditions of normal use.

Symptoms/effects after

inhalation

Prolonged exposure may cause irritation.

Symptoms/effects after skin

contact

Prolonged exposure may cause skin irritation.

Symptoms/effects after eye

contact

May cause slight irritation to eyes.

Symptoms/effects after

ingestion

Ingestion may cause adverse effects.

Chronic symptoms None expected under normal conditions of use.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Water spray, dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of

water may spread fire.

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

Fire hazard Not considered flammable but may burn at high

temperatures.

Explosion hazard Product is not explosive.

Reactivity Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire.

Firefighting instructions

Use water spray or fog for cooling exposed containers.

Protection during firefighting Do not enter fire area without proper protective equipment,

including respiratory protection.

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

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

General measures Avoid prolonged contact with eyes, skin and clothing. Avoid

breathing (vapour, mist, spray).

6.1.1. For non-emergency personnel

Protective equipment Use appropriate personal protective equipment (PPE).

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Upon arrival at the scene, a first responder is expected to

recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and 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 spills immediately and dispose of waste safely.

Transfer spilled material to a suitable container for disposal.

Contact competent authorities after a spill.

#### 6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling Wash hands and other exposed areas with mild soap and

water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing.

Avoid breathing vapours, mist, spray.

Hygiene measures Handle in accordance with good industrial hygiene and

safety procedures.

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

Technical measures Comply with applicable regulations.

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Keep container closed when not in use. Store in a dry, cool Storage conditions

place. Keep/Store away from direct sunlight, extremely high or

low temperatures and incompatible materials.

Incompatible materials Strong acids, strong bases, strong oxidizers.

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

For protection of sensitive photonics assemblies from dust, shock and ambient atmosphere. For professional use only.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

3-Butyn-2-ol, 2-met	hyl- (115-19-5)	
Austria	MAK (mg/m³)	3 mg/m³
Austria	MAK (ppm)	0,9 ppm
Austria	MAK Short time value (mg/m³)	6 mg/m³
Austria	MAK Short time value (ppm)	1,8 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	3 mg/m³
Germany	TRGS 900 Occupational exposure limit value (ppm)	0,9 ppm

#### 8.2. Exposure controls

Appropriate engineering Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. controls

Ensure adequate ventilation, especially in confined areas.

Ensure all national/local regulations are observed. Gloves. Protective clothing. Protective goggles.

Personal protective

equipment





Chemically resistant materials and fabrics.

Materials for protective

clothing

Hand protection Eve protection

Skin and body protection Respiratory protection

Chemical safety goggles.

Wear suitable protective clothing.

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of

inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved

respiratory protection.

Wear protective gloves.

Other information When using, do not eat, drink or smoke.

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

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Clear

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: None Odour

Odour threshold : No data available : No data available На Relative evaporation rate : No data available

(butylacetate=1)

Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : > 135 °C (275 °F) Auto-ignition temperature : No data available Decomposition temperature : No data available : Not applicable Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative Density : 1,04 (water = 1)Solubility : No data available Partition coefficient: n-octanol/water : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosive properties** : No data available

9.2. Other information

Oxidising properties

**Explosive limits** 

**VOC** content < 1 %

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

## 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Not classified Acute toxicity

Trisiloxane, 3-[(dimethylsilyl)oxy]-1,1,5,5-tetramethyl-3-phenyl- (18027-45-7)	
LD50 dermal rat 4250 mg/kg bodyweight	
LC50 inhalation rat (mg/l)	> 5,3 mg/l/4h

: No data available

: No data available

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3-Butyn-2-ol, 2-methyl- (115-19-5)	
LD50 oral rat	1950 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 21300 mg/m³ (Exposure time: 4 h)

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Not classified
Not classified
Not classified
Not classified

STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard Not classified

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general Not classified.

· · ·	
3-Butyn-2-ol, 2-methyl- (115-19-5)	
LC50 fish 1	3120 (3120 - 3480) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	500 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC50 fish 2	2200 (2200 - 4600) mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
EC50 other aquatic organisms 2	500 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)

#### 12.2. Persistence and degradability

LS-3246 Part B	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

LS-3246 Part B	
Bioaccumulative potential	Not established.
3-Butyn-2-ol, 2-methyl- (115-19-5)	
Log Pow	0,318 (at 25 °C)

## 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 information Avoid release to the environment.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal Dispose of contents/container in accordance with local,

recommendations regional, national, and international regulations.

Ecology - waste materials Avoid release to the environment.

# **SECTION 14: Transport information**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

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

ADR	IMDG	IATA	ADN	RID
14.1.UN numbe	ſ			
Not regulated for	transport			
14.2.UN proper	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment: No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

# 14.6. Special precautions for user

No additional information available

# 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances VOC content < 1 %

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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## **SECTION 16: Other information**

## Indication of changes:

Section	Section Header	Change	Date Changed
1	Identification of the substance/mixture and of the company/undertaking	Modified	05/01/2018
2	Hazards identification	Removed DSD/DPD information. Modified classification.	05/01/2018
3	Composition/information on ingredients	Removed DSD/DPD information. Modified component classification. Removed non- hazardous components and components below cut-offs.	05/01/2018
4	First aid measures	Modified	05/01/2018
8	Exposure controls/personal protection	Modified	05/01/2018
9	Physical and chemical properties	Modified	05/01/2018
11	Toxicological information	Modified	05/01/2018
12.	Ecological information	Modified	05/01/2018
15	Regulatory information	Modified	05/01/2018

Date of Preparation or Latest

Revision

Data sources

05/01/2018

Information and data obtained and used in the authoring of

this safety data sheet could come from database

subscriptions, official government regulatory body websites,

product/ingredient manufacturer or supplier specific

information, and/or resources that include substance specific data and classifications according to GHS or their subsequent

adoption of GHS.

Other information According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EU) 2015/830

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

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3,
	Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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#### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

H335	May cause respiratory irritation.
EUH210	Safety data sheet available on request.

#### Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists ADN - European Agreement Concerning the International Carriage of

Dangerous Goods by Inland Waterways

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate BCF - Bioconcentration Factor

BEI - Biological Exposure Indices (BEI) BOD – Biochemical Oxygen Demand

CAS No. - Chemical Abstracts Service Number

CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008

COD - Chemical Oxygen Demand EC - European Community

EC50 - Median Effective Concentration EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Chemical Substances

EmS-No. (Fire) - IMDG Emergency Schedule Fire EmS-No. (Spillage) - IMDG Emergency Schedule Spillage

EU – European Union

ErC50 - EC50 in Terms of Reduction Growth Rate

GHS - Globally Harmonized System of Classification and Labeling of

Chemicals

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC Code - International Bulk Chemical Code IMDG - International Maritime Dangerous Goods

IPRV - Ilgalaikio Poveikio Ribinis Dydis

IOELV - Indicative Occupational Exposure Limit Value

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level LOFC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient

Log Kow - Octanol/water Partition Coefficient

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible

solvents, in this case octanol and water MAK - Maximum Workplace Concentration/Maximum Permissible

Concentration

MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyzsze Dopuszczalne Stezenie

NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration NRD - Nevirsytinas Ribinis Dydis

NTP - National Toxicology Program OEL - Occupational Exposure Limits

PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

pH - Potential Hydrogen

REACH - Registration, Evaluation, Authorisation, and Restriction of Chemicals

RID – Regulations Concerning the International Carriage of Dangerous

Goods by Rail

SADT - Self Accelerating Decomposition Temperature

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit

TA-Luft - Technische Anleitung zur Reinhaltung der Luft

TEL TRK - Technical Guidance Concentrations

ThOD – Theoretical Oxygen Demand

TLM - Median Tolerance Limit TLV - Threshold Limit Value

TPRD - Trumpalaikio Poveikio Ribinis Dydis

TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von

Gefahrstoffen in ortsbeweglichen Behältern

TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine

TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte

TSCA - Toxic Substances Control Act TWA - Time Weighted Average VOC - Volatile Organic Compounds

VLA-EC - Valor Límite Ambiental Exposición de Corta Duración

VLA-ED - Valor Límite Ambiental Exposición Diaria

VLE - Valeur Limite D'exposition

VME - Valeur Limite De Moyenne Exposition vPvB - Very Persistent and Very Bioaccumulative

WEL - Workplace Exposure Limit WGK - Wassergefährdungsklasse

**Nusil EU GHS SDS** 

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