

# LS-3238 Part A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 25/10/2018 Date of issue: 25/10/2013

Version: 4.0

## SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

### 1.1. Product Identifier

Product form Mixture  
Product Name LS-3238 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 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](mailto:ehs@nusil.com)  
[www.nusil.com](http://www.nusil.com)

### 1.4. Emergency Telephone Number

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

## SECTION 2: Hazards Identification

### 2.1. Classification of the Substance or Mixture

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

Skin Irrit. 2 H315

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 1.6

### 2.2. Label Elements

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

Hazard Pictograms (CLP)



GHS05

Danger

Signal Word (CLP)

Hazardous Ingredients

Hazard Statements (CLP)

Platinum Catalyst

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary Statements (CLP)

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling

P280 - Wear eye protection, protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for

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several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor  
P321 - Specific treatment (see section 4 on this SDS)  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

### 2.3. Other Hazards

Other Hazards Not Contributing to the Classification Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Platinum Catalyst	(CAS-No.) 68478-92-2	<15%	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Full text of H-statements: see section 16

## SECTION 4: First Aid Measures

### 4.1. Description of First-aid Measures

First-Aid Measures General If medical advice is needed, have product container or label at hand.

First-Aid Measures After Inhalation If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-Aid Measures After Skin Contact Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists.

First-Aid Measures After Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 30 minutes. Immediately call a POISON CENTER or doctor/physician.

First-Aid Measures After Ingestion Do not induce vomiting. Seek medical attention if a large amount is swallowed.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects Causes serious eye damage. Causes skin irritation.

Symptoms/Effects After Inhalation May cause respiratory irritation.

Symptoms/Effects After Skin Contact Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Effects After Eye Contact Causes serious eye damage.

Symptoms/Effects After Ingestion If a large quantity has been ingested : Gastrointestinal irritation.

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Chronic Symptoms None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: Firefighting Measures

### 5.1. Extinguishing Media

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire. Not considered flammable but will burn at high temperatures.

Unsuitable Extinguishing Media

Do not use a heavy water stream. Use of heavy stream of water may spread fire. Water or ordinary type foam may cause frothing.

### 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

Stable at ambient temperature and under normal conditions of use.

### 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. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting

Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information

Refer to Section 9 for flammability properties.

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures

Avoid all contact with skin, eyes, or 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.

### 6.2. Environmental Precautions

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

### 6.3. Methods and Materials 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. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

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### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: Handling And Storage

### 7.1. Precautions for Safe Handling

Hygiene Measures

Handle in accordance with good industrial hygiene and safety procedures. 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

Technical Measures

Comply with applicable regulations.

Storage Conditions

Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials

Strong acids, strong bases, strong oxidizers.

Storage Area

Store away from heat.

### 7.3. Specific End Use(S)

For professional use only.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control Parameters

No additional information available

### 8.2. Exposure Controls

Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment

Protective goggles. Gloves. Protective clothing.



Materials for Protective Clothing

Chemically resistant materials and fabrics.

Hand Protection

Wear chemically resistant protective gloves.

Eye Protection

Chemical safety goggles.

Skin and Body Protection

Wear suitable protective clothing.

Respiratory Protection

Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls

Do not allow the product to be released into the environment.

## SECTION 9: Physical and Chemical Hazards

### 9.1. Information on Basic Physical and Chemical Properties

Physical State

Liquid

Appearance

Colourless

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

Colour	No data available
Odour	Odourless
Odour Threshold	No data available
pH	No data available
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	> 135 °C
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (Solid, Gas)	No data available
Vapour Pressure	No data available
Relative Vapour Density At 20 °C	No data available
Relative Density	< 1 (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
Explosive Limits	No data available

### 9.2. Other Information

VOC content < 1 %

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

### 10.2. Chemical Stability

Stable at standard temperature and pressure.

### 10.3. Possibility Of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions To Avoid

Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products

Under conditions of fire this material may produce: Carbon monoxide. Carbon dioxide. Silicon oxides. Fluorine compounds.

## SECTION 11: Toxicological Information

### 11.1. Information On Toxicological Effects

Acute Toxicity	Not classified
Skin Corrosion/Irritation	Causes skin irritation.
Eye Damage/Irritation	Causes serious eye damage.
Respiratory or Skin Sensitization	Not classified

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Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified

## SECTION 12: Ecological Information

### 12.1. Toxicity

No additional information available

### 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 Information Avoid release to the environment.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Product/Packaging Disposal	Dispose of waste material in accordance with all local, 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

<b>14.1. UN Number</b>
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Not regulated for transport
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<b>14.2. UN Proper Shipping Name</b>
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Not regulated for transport
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<b>14.3. Transport Hazard Class(Es)</b>
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Not regulated for transport
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<b>14.4. Packing Group</b>
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Not regulated for transport
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<b>14.5. Environmental Hazards</b>
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Not regulated for transport
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<b>14.6. Special Precautions For User</b>
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No additional information available
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### 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

Platinum Catalyst (68478-92-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 15.1.2. National Regulations

No additional information available

### 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
2	Hazards identification	Modified classification.	25/10/2018
3	Composition/information on ingredients	Modified composition.	25/10/2018
4	First aid measures	Modified	25/10/2018
11	Toxicological information	Modified	25/10/2018

Date of Preparation or Latest Revision 25/10/2018

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

Full Text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

## Abbreviations and Acronyms

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

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  
LOEC – Lowest-Observed-Effect Concentration  
Log K<sub>oc</sub> – Soil Organic Carbon-water Partitioning Coefficient  
Log K<sub>ow</sub> – Octanol/water Partition Coefficient  
Log P<sub>ow</sub> – 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

NDS – Najwyższe Dopuszczalne Steżenie  
NDSch – Najwyższe Dopuszczalne Steżenie Chwilowe  
NDSP – Najwyższe Dopuszczalne Steżenie 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

The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL TECHNOLOGY LLC AND ITS AFFILIATED COMPANIES ("NUSIL") EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY. This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.



# LS-3238 Part B

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 25/10/2018 Date of issue: 25/10/2013

Version: 3.0

## SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

### 1.1. Product Identifier

Product form Mixture  
Product Name LS-3238 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 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](mailto:ehs@nusil.com)  
[www.nusil.com](http://www.nusil.com)

### 1.4. Emergency Telephone Number

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

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
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

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Full text of H-statements: see section 16

## SECTION 4: First Aid Measures

### 4.1. Description of First-aid Measures

First-Aid Measures General	If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person.
First-Aid Measures After Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
First-Aid Measures After Skin Contact	Wash skin thoroughly with mild 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. Continue rinsing. Obtain medical attention.
First-Aid Measures After Ingestion	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### 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	May cause respiratory irritation.
Symptoms/Effects After Skin Contact	May cause skin irritation.
Symptoms/Effects After Eye Contact	May cause eye irritation.
Symptoms/Effects After Ingestion	Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms	None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: Firefighting Measures

### 5.1. Extinguishing Media

Suitable Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media	Do not use a heavy water stream. Use of heavy stream of water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.

### 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	Stable at ambient temperature and under normal conditions of use.

### 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.
Other Information	Refer to Section 9 for flammability properties.

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## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures Avoid all contact with skin, eyes, or 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 Use appropriate personal protective equipment (PPE).

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.

### 6.2. Environmental Precautions

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

### 6.3. Methods and Materials 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. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: Handling And Storage

### 7.1. Precautions for Safe Handling

Hygiene Measures Handle in accordance with good industrial hygiene and safety procedures. 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

Technical Measures Comply with applicable regulations.

Storage Conditions Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials Strong acids. Strong bases. Strong oxidizers.

Storage Area Store away from heat.

### 7.3. Specific End Use(S)

No additional information available

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

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control Parameters

3-Butyn-2-ol, 2-methyl- (115-19-5)		
Austria	MAK (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Austria	MAK (ppm)	0,9 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	1,8 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	0,9 ppm

### 8.2. Exposure Controls

Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment

Protective goggles. Gloves. Protective clothing.



Materials for Protective Clothing

Chemically resistant materials and fabrics.

Hand Protection

Wear chemically resistant protective gloves.

Eye Protection

Chemical goggles or safety glasses.

Skin and Body Protection

Wear suitable protective clothing.

Respiratory Protection

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

Environmental Exposure Controls

Do not allow the product to be released into the environment.

## SECTION 9: Physical and Chemical Hazards

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	Liquid
Colour	Colourless
Odour	Odourless
Odour Threshold	No data available
pH	No data available
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	> 135 °C
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (Solid, Gas)	No data available
Vapour Pressure	No data available

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Relative Vapour Density At 20 °C	No data available
Relative Density	< 1 (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
Explosive Limits	No data available

#### 9.2. Other Information

VOC content < 1 %

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

### 10.2. Chemical Stability

Stable at standard temperature and pressure.

### 10.3. Possibility Of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions To Avoid

Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

### 10.5. Incompatible Materials

Strong acids. Strong bases. Strong oxidizers.

### 10.6. Hazardous Decomposition Products

Under conditions of fire this material may produce: Carbon monoxide. Carbon dioxide. Silicon oxides. Low molecular weight hydrocarbon fragments.

## SECTION 11: Toxicological Information

### 11.1. Information On Toxicological Effects

Acute Toxicity Not classified

3-Butyn-2-ol, 2-methyl- (115-19-5)	
LD50 Oral Rat	1950 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 21300 mg/m <sup>3</sup> (Exposure time: 4 h)

Skin Corrosion/Irritation	Not classified
Eye Damage/Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified

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## SECTION 12: Ecological Information

### 12.1. Toxicity

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

No additional information available

### 12.3. Bioaccumulative Potential

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.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Product/Packaging Disposal Dispose of waste material in accordance with all local, regional, national, and international regulations.  
Recommendations  
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

<b>14.1. UN Number</b>
Not regulated for transport
<b>14.2. UN Proper Shipping Name</b>
Not regulated for transport
<b>14.3. Transport Hazard Class(Es)</b>
Not regulated for transport
<b>14.4. Packing Group</b>
Not regulated for transport
<b>14.5. Environmental Hazards</b>
Not regulated for transport

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#### 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

3-Butyn-2-ol, 2-methyl- (115-19-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 15.1.2. National Regulations

No additional information available

### 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
		Modified format	25/10/2018

Date of Preparation or Latest Revision 25/10/2018

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

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
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H318	Causes serious eye damage.

### 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

MARPOL - International Convention for the Prevention of Pollution  
NDS - Najwyższe Dopuszczalne Stężenie  
NDSCh - Najwyższe Dopuszczalne Stężenie Chwilowe  
NDSP - Najwyższe Dopuszczalne Stężenie Pulapowe  
NOAEL - No-Observed Adverse Effect Level  
NOEC - No-Observed Effect Concentration  
NRD - Nevirsytinas Ribinis Dydis

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BEI - Biological Exposure Indices (BEI)	NTP - National Toxicology Program
BOD - Biochemical Oxygen Demand	OEL - Occupational Exposure Limits
CAS No. - Chemical Abstracts Service Number	PBT - Persistent, Bioaccumulative and Toxic
CLP - Classification, Labeling and Packaging Regulation (EC) No 1272/2008	PEL - Permissible Exposure Limit
COD - Chemical Oxygen Demand	pH - Potential Hydrogen
EC - European Community	REACH - Registration, Evaluation, Authorisation, and Restriction of Chemicals
EC50 - Median Effective Concentration	RID - Regulations Concerning the International Carriage of Dangerous Goods by Rail
EEC - European Economic Community	SADT - Self Accelerating Decomposition Temperature
EINECS - European Inventory of Existing Commercial Chemical Substances	SDS - Safety Data Sheet
EmS-No. (Fire) - IMDG Emergency Schedule Fire	STEL - Short Term Exposure Limit
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	TA-Luft - Technische Anleitung zur Reinhaltung der Luft
EU - European Union	TEL TRK - Technical Guidance Concentrations
ErC50 - EC50 in Terms of Reduction Growth Rate	ThOD - Theoretical Oxygen Demand
GHS - Globally Harmonized System of Classification and Labeling of Chemicals	TLM - Median Tolerance Limit
IARC - International Agency for Research on Cancer	TLV - Threshold Limit Value
IATA - International Air Transport Association	TPRD - Trumpalaikio Poveikio Ribinis Dydis
IBC Code - International Bulk Chemical Code	TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern
IMDG - International Maritime Dangerous Goods	TRGS 552 - Technische Regeln für Gefahrstoffe - N-Nitrosamine
IPRV - Ilgalaikio Poveikio Ribinis Dydis	TRGS 900 - Technische Regel für Gefahrstoffe 900 - Arbeitsplatzgrenzwerte
IOELV - Indicative Occupational Exposure Limit Value	TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
LC50 - Median Lethal Concentration	TSCA - Toxic Substances Control Act
LD50 - Median Lethal Dose	TWA - Time Weighted Average
LOAEL - Lowest Observed Adverse Effect Level	VOC - Volatile Organic Compounds
LOEC - Lowest-Observed-Effect Concentration	VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
Log Koc - Soil Organic Carbon-water Partitioning Coefficient	VLA-ED - Valor Límite Ambiental Exposición Diaria
Log Kow - Octanol/water Partition Coefficient	VLE - Valeur Limite D'exposition
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	VME - Valeur Limite De Moyenne Exposition
MAK - Maximum Workplace Concentration/Maximum Permissible Concentration	vPvB - Very Persistent and Very Bioaccumulative
	WEL - Workplace Exposure Limit
	WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

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