

# CV2-2646 Part A

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 23/12/2019 Date of issue: 29/01/2014

Version: 4.0

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

### 1.1. Product Identifier

Product form Mixture  
Product Name CV2-2646 Part A  
Synonyms Silicone Elastomer

### 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 Europe  
1198 Avenue Maurice Donat  
Le Natura Bt. 2  
06250 Mougins  
France  
+33 4 92 96 93 31  
[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)  
+(44)-870-8200418  
+(353)-19014670

## SECTION 2: Hazards Identification

### 2.1. Classification of the Substance or Mixture

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

Skin Sens. 1 H317

Aquatic Acute 1 H400

Aquatic Chronic 3 H412

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)



GHS07



GHS09

Signal Word (CLP)

Warning

Hazardous Ingredients

Nickel

Hazard Statements (CLP)

H317 - May cause an allergic skin reaction.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements (CLP)

P261 - Avoid breathing vapors, mist, or spray

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P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P321 - Specific treatment (see Section 4 on this SDS)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other Hazards

Other Hazards Not Contributing to the Classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Nickel*	(CAS-No.) 7440-02-0 (EC-No.) 231-111-4 (EC Index-No.) 028-002-00-7	40 - 60	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Silver*	(CAS-No.) 7440-22-4 (EC-No.) 231-131-3	15 - 25	Not classified
Glass, oxide, chemicals*	(CAS-No.) 65997-17-3 (EC-No.) 266-046-0	< 10	Not classified

Full text of H-statements: see section 16

\*Nickel and Glass are present as Silver coated spheres. The spheres are bound in a silicon matrix. Therefore, the respiratory hazards usually associated with Nickel are not applicable to the product.

## 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.

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First-Aid Measures After Skin Contact	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.
First-Aid Measures After Eye Contact	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for at least 15 minutes. Obtain medical attention.
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	Skin sensitisation.
Symptoms/Effects After Inhalation	Prolonged exposure may cause irritation.
Symptoms/Effects After Skin Contact	May cause an allergic skin reaction.
Symptoms/Effects After Eye Contact	May cause slight irritation to eyes.
Symptoms/Effects After Ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	Nickel: May cause a form of dermatitis known as nickel itch and intestinal irritation, which may cause disorders, convulsions and asphyxia. Silver: Chronic skin contact or ingestion of silver dust, salts or fume can result in a condition known as Argyria, a condition with bluish pigmentation of the skin and eyes.

### 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, fog, carbon dioxide (CO <sub>2</sub> ), alcohol-resistant foam, or dry chemical.
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.
Hazardous Decomposition Products in Case of Fire	Oxides of nickel. Oxides of silver. Carbon oxides (CO, CO <sub>2</sub> ). Silicon oxides. Formaldehyde.

### 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	Do not allow run-off from fire fighting to enter drains or water courses.

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### SECTION 6: Accidental Release Measures

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

General Measures Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing.

##### 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. Avoid release to the environment. Collect spillage.

#### 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. 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

Additional Hazards When Processed Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Precautions for Safe Handling Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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 professional use only.

### SECTION 8: Exposure Controls/Personal Protection

#### 8.1. Control Parameters

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Nickel (7440-02-0)		
Austria	TEL TRK (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> (dust, inhalable fraction)
Austria	OEL chemical category (AT)	Group A1 Carcinogen dust, Respiratory sensitizer dust, Skin sensitizer
Belgium	Limit value (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Bulgaria	Bulgaria - BLV	45 µg/l Parameter: Nickel - Medium: urine - Sampling time: after several work shifts
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Croatia	OEL chemical category (HR)	Carcinogen Category 1A
Croatia	Croatia - BLV	10 µg/l Parameter: Nickel - Medium: plasma - Sampling time: at the end of the work shift 8 µg/g creatinine Parameter: Nickel - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> (respirable fraction of aerosol)
Czech Republic	OEL chemical category (CZ)	Sensitizer
Czech Republic	Czech Republic - BLV	0,077 µmol/mmol Creatinine Parameter: Nickel - Medium: urine - Sampling time: discretionary 0,04 mg/g creatinine Parameter: Nickel - Medium: urine - Sampling time: discretionary
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> (dust and powder)
Estonia	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Estonia	OEL chemical category (ET)	Sensitizer
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0,01 mg/m <sup>3</sup> (respirable dust)
Finland	Finland - BLV	0,1 µmol/l Parameter: Nickel - Medium: urine - Sampling time: after the shift after a working week or exposure period
France	VME (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> 1 mg/m <sup>3</sup> (metal gratings)
France	OEL chemical category (FR)	Carcinogen category 2
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	0,006 mg/m <sup>3</sup>
Germany	Chemical category	Skin sensitization
Greece	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Hungary	MK-érték	0,1 mg/m <sup>3</sup>
Hungary	OEL chemical category (HU)	Carcinogenic substance, Sensitizer

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Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup> (calculated)
Ireland	OEL chemical category (IE)	Sensitizer
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Lithuania	OEL chemical category (LT)	Carcinogen, Sensitizer
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	0,15 mg/m <sup>3</sup> (value calculated)
Norway	OEL chemical category (NO)	Carcinogen, Potential reproductive hazard, Sensitizing substance
Poland	NDS (mg/m <sup>3</sup> )	0,25 mg/m <sup>3</sup>
Portugal	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup> (inhalable fraction)
Portugal	OEL chemical category (PT)	A5 - Not Suspected as a Human Carcinogen
Romania	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Romania	OEL STEL (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Romania	OEL chemical category (RO)	C2
Romania	Romania - BLV	3 µg/l Parameter: Nickel - Medium: urine - Sampling time: end of shift (SCOEL)
Slovakia	Slovakia - BLV	0,03 mg/l Parameter: Nickel - Medium: blood - Sampling time: end of exposure or work shift
Slovenia	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> (inhalable fraction)
Slovenia	OEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (inhalable fraction)
Slovenia	OEL chemical category (SL)	Category 2
Spain	VLA-ED (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (manufacturing, commercialization and use restrictions according to REACH)
Spain	OEL chemical category (ES)	Sensitizer
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> (total dust)
Sweden	OEL chemical category (SE)	Sensitizer
Switzerland	MAK (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> (inhalable dust)
Switzerland	OEL chemical category (CH)	Category C2 carcinogen, Sensitizer
Switzerland	Switzerland - BLV	45 µg/l Parameter: Nickel - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup> (calculated)
United Kingdom	WEL chemical category	Potential for cutaneous absorption
Glass, oxide, chemicals (65997-17-3)		
Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (dust and fiber)
Silver (7440-22-4)		

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EU	IOELV TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Austria	MAK (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (inhalable fraction)
Austria	MAK Short time value (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (inhalable fraction)
Austria	OEL - Ceilings (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (inhalable fraction)
Belgium	Limit value (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Cyprus	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (respirable fraction of aerosol)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0,01 mg/m <sup>3</sup> (dust and powder)
Estonia	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (indicative limit)
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (inhalable fraction)
Greece	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Hungary	AK-érték	0,1 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (metallic)
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup> (calculated)
Italy	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Luxembourg	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Malta	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (metallic)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (metallic)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (metal dust and fume)
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup> (value calculated-metal dust and fume)
Poland	NDS (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> (inhalable fraction)
Portugal	OEL TWA (mg/m <sup>3</sup> )	0,01 mg/m <sup>3</sup> (indicative limit value)
Romania	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (metallic)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Slovenia	OEL TWA (mg/m <sup>3</sup> )	0,01 mg/m <sup>3</sup> (inhalable fraction)
Slovenia	OEL STEL (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup> (inhalable fraction)
Spain	VLA-ED (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (indicative limit value)
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (total dust)
Switzerland	KZGW (mg/m <sup>3</sup> )	0,8 mg/m <sup>3</sup> (inhalable dust)
Switzerland	MAK (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (inhalable dust)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>

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United Kingdom	WEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup> (calculated)
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### 8.2. Exposure Controls

Appropriate Engineering Controls

Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing

Chemically resistant materials and fabrics.

Hand Protection

Wear protective gloves.

Eye Protection

Chemical safety goggles.

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. 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 Hazards

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

Physical State	Liquid
Colour	Grey - Green
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 (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	3,23 (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 %



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### 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

Will decompose above 150 °C (>300° F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

### SECTION 11: Toxicological Information

#### 11.1. Information On Toxicological Effects

Acute Toxicity Not classified (Based on available data, the classification criteria are not met)

Nickel (7440-02-0)	
LD50 Oral Rat	> 9000 mg/kg
LC50 Inhalation Rat	> 10,2 mg/l (Exposure time: 1 h)
Silver (7440-22-4)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg

Skin Corrosion/Irritation	Not classified (Based on available data, the classification criteria are not met)
Eye Damage/Irritation	Not classified (Based on available data, the classification criteria are not met)
Respiratory or Skin Sensitization	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified. (Based on available data, the classification criteria are not met)
Reproductive Toxicity	Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Single Exposure)	Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Repeated Exposure)	Not classified. (Based on available data, the classification criteria are not met)
Aspiration Hazard	Not classified (Based on available data, the classification criteria are not met)

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### SECTION 12: Ecological Information

#### 12.1. Toxicity

Ecology - General

Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Nickel (7440-02-0)	
LC50 Fish 1	100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	121,6 µg/l (Exposure time: 48h - Species: Ceriodaphnia dubia [static])
LC50 Fish 2	15,3 mg/l
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Other Aquatic Organisms 2	0,174 (0,174 - 0,311) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])
Silver (7440-22-4)	
LC50 Fish 1	0,00155 - 0,00293 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	0,00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	0,0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
NOEC Chronic Fish	390 ng/l (Exposure time: 28d - Species: Pimephales promelas)

#### 12.2. Persistence and Degradability

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Persistence and Degradability	May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative Potential

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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

#### 12.6. Other Adverse Effects

Other Information

Avoid release to the environment.

### SECTION 13: Disposal Considerations

#### 13.1. Waste Treatment Methods

Product/Packaging Disposal  
Recommendations

Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information

Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials

Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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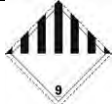




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### SECTION 14: Transport Information

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
<b>14.1. UN Number</b>				
3082	3082	3082	3082	3082
<b>14.2. UN Proper Shipping Name</b>				
ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Nickel, Silver)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Nickel, Silver)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Nickel, Silver)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Nickel, Silver)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Nickel, Silver)
<b>14.3. Transport Hazard Class(Es)</b>				
9	9	9	9	9
				
<b>14.4. Packing Group</b>				
III	III	III	III	III
<b>14.5. Environmental Hazards</b>				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

#### 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 substance on the REACH candidate list

Contains no REACH Annex XIV substances

##### 15.1.2. National Regulations

No additional information available

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

# CV2-2646 Part A

## Safety Data Sheet

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

### SECTION 16: Other Information

#### Indication of Changes

Section	Section Header	Change	Date Changed
1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Minor changes to whole sections	Modified	23/12/2019
2	Classification According to Regulation (EC) No. 1272/2008 [CLP]	Modified	23/12/2019
3	Composition/information on ingredients	Modified	23/12/2019

Date of Preparation or Latest Revision 23/12/2019

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

#### Other Information

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

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

#### 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  
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-

NDS - Najwyższe Dopuszczalne Stezenie  
NDSch - Najwyższe Dopuszczalne Stezenie Chwilowe  
NDSP - Najwyższe 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  
STOT - Specific Target Organ Toxicity  
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

# CV2-2646 Part A

## Safety Data Sheet

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

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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

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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# CV2-2646 Part B

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 23/12/2019 Date of issue: 29/01/2014

Version: 4.0

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

### 1.1. Product Identifier

Product form Mixture  
Product Name CV2-2646 Part B  
Synonyms Curing Agent

### 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 Europe  
1198 Avenue Maurice Donat  
Le Natura Bt. 2  
06250 Mougins  
France  
+33 4 92 96 93 31  
[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)  
+(44)-870-8200418  
+(353)-19014670

## SECTION 2: Hazards Identification

### 2.1. Classification of the Substance or Mixture

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

Skin Corr. 1C	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 2	H341
Repr. 1B	H360
STOT SE 1	H370
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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



GHS07



GHS08



GHS09

## CV2-2646 Part B

### Safety Data Sheet

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

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Signal Word (CLP)  
Hazardous Ingredients  
Hazard Statements (CLP)

Danger  
Dibutyltin dilaurate  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H341 - Suspected of causing genetic defects.  
H360 - May damage fertility or the unborn child.  
H370 - Causes damage to organs (thymus).  
H372 - Causes damage to organs (thymus) through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements (CLP)

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe vapors, mist, or spray  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P311 - If exposed or concerned: Call a POISON CENTER/doctor  
P310 - Immediately call a POISON CENTER or doctor  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see section 4 on this SDS)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other Hazards

Other Hazards Not Contributing to the Classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

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## Safety Data Sheet

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

### SECTION 3: Composition/Information on Ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Dibutyltin dilaurate	(CAS-No.) 77-58-7 (EC-No.) 201-039-8 (EC Index-No.) 050-030-00-3	40 - 70	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

First-Aid Measures After Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-Aid Measures After Skin Contact

Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

First-Aid Measures After Eye Contact

Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-Aid Measures After Ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/Effects

Causes severe skin burns and eye damage. Skin sensitisation. Causes damage to organs (thymus). Causes damage to organs through prolonged (thymus) or repeated exposure. May damage fertility. May damage the unborn child. Suspected of causing genetic defects.

Symptoms/Effects After Inhalation

May be corrosive to the respiratory tract.

Symptoms/Effects After Skin Contact

May cause an allergic skin reaction. Causes severe irritation which will progress to chemical burns.

Symptoms/Effects After Eye Contact

Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Effects After Ingestion

May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.



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Chronic Symptoms Causes damage to organs (thymus) through prolonged or repeated exposure. Suspected of causing genetic defects. May damage fertility or the unborn child.

#### 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 Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard Combustible liquid.  
Explosion Hazard May form flammable or explosive vapour-air mixture.  
Reactivity Reacts violently with strong oxidisers. Increased risk of fire or explosion. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Hazardous Decomposition Products in Case of Fire Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. Oxides of tin.

### 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 Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: Accidental Release Measures

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

General Measures Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

#### 6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE).  
Emergency Procedures Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 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. Eliminate ignition sources.

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### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### 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. As an immediate precautionary measure, isolate spill or leak area in all directions.

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. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Cautiously neutralize spilled liquid.

### 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

Additional Hazards When Processed

Handle empty containers with care because residual vapours are flammable. May release corrosive vapors.

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapours, mist, spray. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharge. Use only non-sparking tools. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions

Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(S)

For professional use only

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control Parameters

Tin organic compounds

Austria

MAK (mg/m<sup>3</sup>)

0,1 mg/m<sup>3</sup> (except tri-n-Butyltin)

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		compounds-inhalable fraction)
Austria	MAK Short time value (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup> (except Tri-n-butyltin compounds-inhalable fraction)
Austria	OEL chemical category (AT)	Skin notation except Tri-n-butyltin compounds
Belgium	Limit value (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Belgium	Short time value (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Belgium	OEL chemical category (BE)	Skin
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (except Cyhexatin)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup> (except Cyhexatin)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (except Tri-n-butyltin compounds)
Estonia	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Estonia	OEL STEL (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Estonia	OEL chemical category (ET)	Skin notation
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min)	0,3 mg/m <sup>3</sup>
Finland	OEL chemical category (FI)	Potential for cutaneous absorption
France	VLE (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Greece	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Greece	OEL STEL (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Greece	OEL chemical category (GR)	skin - potential for cutaneous absorption
Hungary	AK-érték	0,1 mg/m <sup>3</sup>
Hungary	CK-érték	0,4 mg/m <sup>3</sup>
Hungary	OEL chemical category (HU)	Potential for cutaneous absorption
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Lithuania	TPRV (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Lithuania	OEL chemical category (LT)	Skin notation
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup> (value calculated)
Norway	OEL chemical category (NO)	Skin notation
Portugal	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Portugal	OEL STEL (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure

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Romania	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Romania	OEL STEL (mg/m <sup>3</sup> )	0,15 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Spain	VLA-ED (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Spain	VLA-EC (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Spain	OEL chemical category (ES)	skin - potential for cutaneous absorption
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (total dust)
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup> (total dust)
Sweden	OEL chemical category (SE)	Skin notation
Switzerland	KZGW (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup> (inhalable dust)
Switzerland	MAK (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (inhalable dust)
Switzerland	OEL chemical category (CH)	Skin notation
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (except Cyhexatin)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup> (except Cyhexatin)
United Kingdom	WEL chemical category	Potential for cutaneous absorption except Cyhexatin

### 8.2. Exposure Controls

Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.

Personal Protective Equipment



Materials for Protective Clothing

Chemically resistant materials and fabrics. Wear fire/flamm resistant/retardant clothing. Corrosion-proof clothing.

Hand Protection

Wear protective gloves.

Eye Protection

Chemical safety goggles and face shield.

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. 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 Hazards

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

Physical State

Liquid

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

Colour	Yellow
Odour	Pungent
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	> 93 °C (199 °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 (Water = 1)
Density	No data available
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
<b>9.2. Other Information</b>	
VOC Content	<1%

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

### 10.2. Chemical Stability

Combustible liquid. May form flammable or explosive vapour-air mixture.

### 10.3. Possibility Of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions To Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products

Decomposition products from hydrolysis in water: propanol. Thermal decomposition generates: Corrosive vapours.

## SECTION 11: Toxicological Information

### 11.1. Information On Toxicological Effects

Acute Toxicity Not classified (Based on available data, the classification criteria are not met)

Dibutyltin dilaurate (77-58-7)

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Dibutyltin dilaurate (77-58-7)	
LD50 Oral	175 mg/kg
LD50 Dermal Rat	> 2 g/kg
Skin Corrosion/Irritation	Causes severe skin burns and eye damage.
Eye Damage/Irritation	Causes serious eye damage.
Respiratory or Skin Sensitization	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive Toxicity	May damage fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure)	Causes damage to organs (thymus).
Specific Target Organ Toxicity (Repeated Exposure)	Causes damage to organs (thymus) through prolonged or repeated exposure.
Aspiration Hazard	Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological Information

### 12.1. Toxicity

Ecology - General Very toxic to aquatic life with long lasting effects.

Dibutyltin dilaurate (77-58-7)	
EC50 Daphnia 1	0,463 mg/l (Daphnia magna)

### 12.2. Persistence and Degradability

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Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

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Bioaccumulative potential	Not established.

Dibutyltin dilaurate (77-58-7)	
Log Pow	4,44

### 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 contents/container in accordance with local, regional, national, and international regulations.  
Recommendations Handle empty containers with care because residual vapours are flammable.  
Additional Information  
Ecology - Waste Materials Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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## 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
<b>14.1. UN Number</b>				
3265	3265	3265	3265	3265
<b>14.2. UN Proper Shipping Name</b>				
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Dibutyltin dilaurate)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Dibutyltin dilaurate)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Dibutyltin dilaurate)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Dibutyltin dilaurate)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Dibutyltin dilaurate)
<b>14.3. Transport Hazard Class(Es)</b>				
8	8	8	8	8
				
<b>14.4. Packing Group</b>				
III	III	III	III	III
<b>14.5. Environmental Hazards</b>				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

### 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 substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 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	23/12/2019
9	Physical and Chemical Hazards	Modified	23/12/2019

Date of Preparation or Latest Revision 23/12/2019

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:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 1	Specific target organ toxicity — Single exposure, Category 1
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### 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

NDS – Najwyższe Dopuszczalne Stężenie  
NDSch – Najwyższe Dopuszczalne Stężenie Chwilowe  
NDSP – Najwyższe Dopuszczalne Stężenie Pulpowe  
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  
STOT – Specific Target Organ Toxicity  
TA-Luft – Technische Anleitung zur Reinhaltung der Luft  
TEL TRK – Technical Guidance Concentrations  
ThOD – Theoretical Oxygen Demand



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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  
MARPOL - International Convention for the Prevention of Pollution

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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