Avanto



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 13/05/2019 Date of issue: 08/01/2014

Version: 3.0

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

#### **Product Identifier** 1.1.

Product form Product Name Synonyms

Mixture MED10-6655 Fluorosilicone Dispersion

#### 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

#### Details of the Supplier of the Safety Data Sheet 1.3.

NuSil Technology Europe 1198 Avenue Maurice Donat Le Natura Bt. 2 06250 Mougins France +33 4 92 96 93 31 ehs@nusil.com www.nusil.com

#### **Emergency Telephone Number** 1.4.

**Emergency Number** 

: +(44)-870-8200418 +(353)-19014670

## **SECTION 2: Hazards Identification**

#### Classification of the Substance or Mixture 2.1.

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

Flam. Lig. 2 H225 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335

Full text of hazard classes and H-statements : see section 16

#### Label Elements 2.2

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

Hazard Pictograms (CLP)

Signal Word (CLP) Hazard Statements (CLP)



Danger H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation.

- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

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According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 P210 - Keep away from heat, hot surfaces, sparks, open flames Precautionary Statements (CLP) and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical, ventilating, and lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P261 - Avoid breathing vapors, mist, or spray P264 - Wash hands, forearms, and exposed areas thoroughly after handling P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, face protection, protective clothing, protective aloves 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. P310 - Immediately call a POISON CENTER or doctor P312 - Call a POISON CENTRE or doctor if you feel unwell. 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. P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool. 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.

## SECTION 3: Composition/Information on Ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixture

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Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl, hydroxy- terminated	(CAS-No.) 68607-77-2	40 - 60	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
tert-Butyl acetate substance with national workplace exposure limit(s) (AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, GR, IE, LV, PL, PT, SE, SK)	(CAS-No.) 540-88-5 (EC-No.) 208-760-7 (EC Index-No.) 607-026-00-7	30 - 50	Flam. Liq. 2, H225
Silanetriol, ethyl-, triacetate	(CAS-No.) 17689-77-9 (EC-No.) 241-677-4	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
Silanetriol, methyl-, triacetate	(CAS-No.) 4253-34-3 (EC-No.) 224-221-9	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318

Full text of H-statements: see section 16

## **SECTION 4: First Aid Measures**

#### 4.1. **Description of First-aid Measures**

First-Aid Measures General	Never give anything by mouth to an unconscious person. If 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. Obtain medical attention if breathing difficulty persists.		
First-Aid Measures After Skin Contact	Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.		
First-Aid Measures After Eye Contact	Rinse cautiously 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	Seek medical attention if a large amount is swallowed. Rinse mouth. Do NOT induce vomiting.		
4.2. Most Important Symptoms and Effects Both Acute and Delayed			
Symptoms/Effects	Causes skin irritation. Causes serious eye damage. May cause drowsiness and dizziness. May cause respiratory irritation.		
Symptoms/Effects After Inhalation	May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.		
Symptoms/Effects After Skin Contact Symptoms/Effects After Eye Contact	Redness, pain, swelling, itching, burning, dryness, and dermatitis. Causes permanent damage to the cornea, iris, or conjunctiva.		

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Symptoms/Effects After Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms Repeated exposure may cause skin dryness or cracking.

**4.3.** Indication of Any Immediate Medical Attention and Special Treatment Needed If you feel unwell, seek medical advice (show the label where possible).

## **SECTION 5: Firefighting Measures**

#### 5.1. Extinguishing Media

Suitable Extinguishing Media	Water spray, fog, carbon dioxide, foam, dry chemical.	
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	Highly flammable liquid and vapour.	

Explosion Hazard	May form flammable/explosive vapour-air mixture.
Reactivity	Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.
Hazardous Decomposition	Carbon oxides (CO, CO2). Silicon oxides. Will decompose
Products in Case of Fire	above 150 °C (> 300 °F) releasing formaldehyde vapours.
	Formaldehyde is a potential carcinogen and can act as a skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation. Isobutylene. Acetic acid. Oxides of tin.
5.3. Advice for Firefighters	
Precautionary Measures Fire	Exercise caution when fighting any chemical fire.

	Exercise cabiller when igning any chemical life.
Firefighting Instructions	Do not breathe fumes from fires or vapours from
	decomposition.
Protection During Firefighting	Do not enter fire area without proper protective equipment,
	including respiratory protection.

## **SECTION 6: Accidental Release Measures**

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

General Measures	Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Avoid contact with skin, eyes and clothing. Avoid breathing (vapor, mist, spray).
6.1.1. For Non-Emergency Perso	
Protective Equipment	Use appropriate personal protective equipment (PPE).
Emergency Procedures	Evacuate unnecessary personnel.
6.1.2. For Emergency Responde	rs
Protective Equipment	Equip cleanup crew with proper protection.
Emergency Procedures	Stop leak if safe to do so. Eliminate ignition sources. Ventilate
	area.
6.2. Environmental Precaution	ons
Prevent entry to sewers and pub	lic waters. Notify authorities if liquid enters sewers or public waters.
	for Containment and Cleaning Up

For Containment	Contain any spills with dikes or absorbents to prevent migration
	and entry into sewers or streams.

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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. Do not take up in
	combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See Section 8 for advice on personal protective equipment 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.
Precautions for Safe Handling	Avoid contact with skin and eyes. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
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 again when leaving work.
7.2. Conditions for Safe Storage	ge, Including Any Incompatibilities
Technical Measures	Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. 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. Keep in fireproof place.
Incompatible Materials	Strong acids. Strong bases. Strong oxidizers.
7.3. Specific End Use(S)	

For professional use only.

## SECTION 8: Exposure Controls/Personal Protection

#### tert-Butyl acetate (540-88-5) Austria MAK (mg/m<sup>3</sup>) 96 mg/m<sup>3</sup> Austria MAK (ppm) 20 ppm MAK Short time value Austria 96 mg/m<sup>3</sup> $(mg/m^3)$ Austria MAK Short time value (ppm) 20 ppm Austria 96 mg/m<sup>3</sup> OEL - Ceilings (mg/m<sup>3</sup>) Austria OEL - Ceilings (ppm) 20 ppm Belgium Limit value (mg/m<sup>3</sup>) 238 mg/m<sup>3</sup> Limit value (ppm) 50 ppm Belgium

### 8.1. Control Parameters

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	(REACH) with its amendment Regulation (EU) 2015/830 Short time value (mg/m³)	712 mg/m <sup>3</sup>
Belgium	· · · ·	
Belgium	Short time value (ppm)	150 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	966 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	200 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	1210 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	250 ppm
Czech Republic	Expoziční limity (PEL) (mg/m³)	950 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	710 mg/m³ (Butyl acetate, all isomers)
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm (Butyl acetate, all isomers)
Finland	HTP-arvo (8h) (mg/m³)	720 mg/m³ (Butyl acetate)
Finland	HTP-arvo (8h) (ppm)	150 ppm (Butyl acetate)
Finland	HTP-arvo (15 min)	960 mg/m³ (Butyl acetate)
Finland	HTP-arvo (15 min) (ppm)	200 ppm (Butyl acetate)
France	VME (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
France	VME (ppm)	200 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	96 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA (mg/m³)	950 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m³)	1190 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	250 ppm
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	600 ppm (calculated)
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Portugal	OEL TWA (ppm)	200 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	NPHV (Hraničná) (mg/m³)	384 mg/m <sup>3</sup>
Slovenia	OEL TWA (mg/m <sup>3</sup> )	96 mg/m <sup>3</sup>
Slovenia	OEL TWA (hig/hi )	20 ppm
Slovenia	OEL TWA (ppm) OEL STEL (mg/m³)	96 mg/m <sup>3</sup>
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Slovenia	OEL STEL (ppm)	20 ppm
Spain	VLA-ED (mg/m³)	966 mg/m³
Spain	VLA-ED (ppm)	200 ppm
Sweden	nivågränsvärde (NVG) (mg/m³)	500 mg/m³ (Butyl acetates)
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm (Butyl acetates)
Sweden	kortidsvärde (KTV) (mg/m³)	700 mg/m³ (Butyl acetates)
Sweden	kortidsvärde (KTV) (ppm)	150 ppm (Butyl acetates)
Switzerland	KZGW (mg/m³)	480 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	100 ppm
Switzerland	MAK (mg/m³)	240 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	50 ppm
United Kingdom	WEL TWA (mg/m³)	966 mg/m³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m³)	1210 mg/m³
United Kingdom	WEL STEL (ppm)	250 ppm

## 8.2. Exposure Controls

8.2. Exposure Controls	
Appropriate Engineering Controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases/vapours may be released. Take precautionary measures against static discharges. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure all national/local regulations are observed.
Personal Protective Equipment	Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.
Materials for Protective Clothing	Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.
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.
Consumer Exposure Controls	Do not eat, drink or smoke during use.

## **SECTION 9: Physical and Chemical Hazards**

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

Physical State Appearance Odour Liquid White. No data available

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

ament Regulation (EU) 2015/830
No data available
98 °C (208 °F)
4,4 °C (40 °F)
No data available
< 1 (water = 1)
No data available
nter No data available
No data available
No data available
No data available
No data available
No data available
30 - 50 %

## **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity

Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.

#### 10.2. Chemical Stability

Highly flammable liquid and vapour.

#### 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

None expected under normal conditions of use.

## **SECTION 11: Toxicological Information**

## 11.1. Information On Toxicological Effects

Acute Toxicity	Not classified		
tert-Butyl acetate (540-88-5)			
LD50 Oral Rat	4500 mg/kg		
LD50 Oral	3300 mg/kg		
LD50 Dermal Rabbit	> 2000		
LC50 Inhalation Rat > 9482 mg/m <sup>3</sup> (Exposure time: 4 h)			
LC50 Inhalation Rat	C50 Inhalation Rat 5157 ppm/4h		

#### Safety Data Sheet According to Regulation (EC) No. 190

ccording to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830			
tert-Butyl acetate (540-88-5)			
LC50 Inhalation Rat	13,3 mg/l/4h		
Silanetriol, ethyl-, triacetate (1768	9-77-9)		
LD50 Oral Rat	1460 mg/kg		
LD50 Oral	1462 mg/kg		
Silanetriol, methyl-, triacetate (4253-34-3)			
LD50 Oral Rat	1437 - 1780 mg/kg		
LD50 Oral	1602 mg/kg		
Skin Corrosion/Irritation Eye Damage/Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity	Causes skin irritation. Causes serious eye damage. Not classified Not classified Not classified		
Reproductive Toxicity Specific Target Organ Toxicity (Single Exposure)	Not classified May cause respiratory irritation.		
Specific Target Organ Toxicity (Re Exposure)			
Aspiration Hazard	Not classified		

## **SECTION 12: Ecological Information**

### 12.1. Toxicity

Ecology - General	Not classified		
tert-Butyl acetate (540-88-5)			
LC50 Fish 1	296 - 362 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		

#### 12.2. Persistence and Degradability

MED10-6655			
Persistence and Degradability	Not established.		
DibutyItin diacetate (1067-33-0)			
Persistence and Degradability Not established.			
12.3. Bioaccumulative Potential			
MED10-6655			
Bioaccumulative potential	Not established.		
tert-Butyl acetate (540-88-5)			
Log Pow	1,38		
Silanetriol, methyl-, triacetate (4253-34-3)			
Log Pow 0,25 KowWin			

### 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.

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

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Product/Packaging Disposal	Dispose of waste material in accordance with all local,
Recommendations	regional, national, and international regulations.
Additional Information	Handle empty containers with care because residual vapours
	are flammable.
Ecology - Waste Materials	Avoid release to the environment.

## **SECTION 14: Transport Information**

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

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

ADR	IMDG	IATA	ADN	RID
14.1. UN Number				
1123	1123	1123	1123	1123
14.2. UN Proper	Shipping Name			
BUTYL ACETATES	BUTYL ACETATES	BUTYL ACETATES	BUTYL ACETATES	BUTYL ACETATES
14.3. Transport H	lazard Class(Es)			
3	3	3	3	3
	3			
14.4. Packing Group				
	II		II	
14.5. Environmental Hazards				
Dangerous for	Dangerous for	Dangerous for	Dangerous for	Dangerous for
the environment	the environment	the environment	the environment	the environment
: No	:No	:No	:No	:No
	Marine pollutant : No			

#### 14.6. Special Precautions For User

No additional information available

**14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code** Not applicable

## SECTION 15: Regulatory Information

# 15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

#### 15.1.2. National Regulations

No additional information available

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#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other Information**

#### Indication of Changes

Section	Section Header		Change	Date Changed	
1	Identification		Modified	13/05/2019	
	substance/mixture and of the company/undertaking				
3	Composition		Modified	13/05/2019	
5	on ingredien		Modified	13/03/2017	
Date of	Preparation or L		5/2019		
Revision			5/2017		
Data So	ources	Infor	mation and data obtained ar	nd used in the authoring of	
			afety data sheet could come	•	
			al government regulatory boo	•	
			uct/ingredient manufacturer ( mation, and/or resources that		
			and classifications according		
			ption of GHS.		
Other In	formation		ording to Regulation (EC) No.	· · · · ·	
			ndment Regulation (EU) 2015/	/830	
	of H- and EUH-s				
	ute Tox. 4 (Oral)	· · · · · · · · · · · · · · · · · · ·	(oral), Category 4	_	
	Dam. 1		mage/eye irritation, Category		
	Irrit. 2	Serious eye damage/eye irritation, Category 2			
	Flam. Liq. 2 Flammable liquids, Category 2				
	Skin Corr. 1B Skin corrosion/irritation, Category 1B				
	Skin Corr. 1C Skin corrosion/irritation, Category 1C				
	Skin Irrit. 2 Skin corrosion/irritation, Category 2			vizagura Catagon ( 1	
	STOT RE 1 Specific target organ toxicity — Repeated exposure, Category 1   STOT SE 1 Specific target organ toxicity — Single exposure, Category 1				
	STOT SE 1Specific target organ toxicity — Single exposure, Category 1STOT SE 3Specific target organ toxicity — Single exposure, Category 3,				
310	STOT SE 3Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation			ore, caregory 3,	
H22	25	Highly flammable liquid and vapour.			
H30		Harmful if swallowed.			
H31	4	Causes severe skin burns and eye damage.			
H31	5	Causes skin irritation.			
H31	8	Causes serious eye damage.			
H31	9	Causes serious eye irritation.			
H33	55	May cause respiratory irritation.			
H37		Causes damage to organs.			
H37	2	Causes damage to organs through prolonged or repeated exposure.			

#### 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

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

ATE - Acute Toxicity Estimate

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

BCF - Bioconcentration Factor NTP – National Toxicology Program BEI - Biological Exposure Indices (BEI) OEL - Occupational Exposure Limits PBT - Persistent, Bioaccumulative and Toxic BOD – Biochemical Oxygen Demand CAS No. - Chemical Abstracts Service Number PEL - Permissible Exposure Limit CLP - Classification, Labeling and Packaging Regulation (EC) No 1272/2008 pH – Potential Hydrogen COD - Chemical Oxygen Demand REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals EC – European Community RID - Regulations Concerning the International Carriage of Dangerous Goods by Rail EC50 - Median Effective Concentration SADT - Self Accelerating Decomposition Temperature - European Economic Community SDS - Safety Data Sheet EINECS – European Inventory of Existing Commercial Chemical Substances EmS-No. (Fire) - IMDG Emergency Schedule Fire STEL - Short Term Exposure Limit STOT - Specific Target Organ Toxicity EmS-No. (Spillage) - IMDG Emergency Schedule Spillage TA-Luft - Technische Anleitung zur Reinhaltung der Luft TEL TRK – Technical Guidance Concentrations ThOD – Theoretical Oxygen Demand EU - European Union ErC50 - EC50 in Terms of Reduction Growth Rate 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 IMDG - International Maritime Dangerous Goods TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern IPRV - Ilgalaikio Poveikio Ribinis Dydis TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine IOELV - Indicative Occupational Exposure Limit Value TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte LC50 - Median Lethal Concentration TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte LD50 - Median Lethal Dose TSCA - Toxic Substances Control Act I OAFL - Lowest Observed Adverse Effect Level TWA - Time Weighted Average VOC – Volatile Organic Compounds LOEC - Lowest-Observed-Effect Concentration Log Koc - Soil Organic Carbon-water Partitioning Coefficient Log Kow - Octanol/water Partition Coefficient VLA-EC - Valor Límite Ambiental Exposición de Corta Duración VLA-ED - Valor Límite Ambiental Exposición Diaria Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a VLE - Valeur Limite D'exposition two-phase system consisting of two largely immiscible solvents, in this case octanol VME - Valeur Limite De Moyenne Exposition vPvB - Very Persistent and Very Bioaccumulative and water MAK - Maximum Workplace Concentration/Maximum Permissible Concentration WEL - Workplace Exposure Limit MARPOL - International Convention for the Prevention of Pollution WGK - Wassergefährdungsklasse Nusil EU GHS SDS

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