



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 05/11/2018 Date of issue: 04/03/2014

Version: 3.0

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

Product Identifier 1.1.

Product form Mixture Product Name SP-121

Synonyms Silicone Primer

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

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Emergency Telephone Number

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

(International and Maritime)

SECTION 2: Hazards Identification

Classification of the Substance or Mixture 2.1.

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

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Chronic 2 H411

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

Label Elements

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

Hazard Pictograms (CLP)







GHS02

Signal Word (CLP) Danaer

Hazardous Ingredients 1-Butanol, titanium(4+) salt; Hydrocarbons, C7-C9, n-alkanes,

isoalkanes, cyclics

H225 - Highly flammable liquid and vapour. Hazard Statements (CLP)

H304 - May be fatal if swallowed and enters airways.

05/11/2018 EN (English) 1/14 Precautionary Statements (CLP)

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

P210 - Keep away from heat, hot surfaces, sparks, open flames 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 vapours, mist, spray

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

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, protective gloves, eye protection, face shield

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

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)

P331 - Do NOT induce vomiting.

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 to extinguish P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. 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.

EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH-statements

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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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]
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	(EC-No.) 920-750-0 (REACH Registration No.) 01-2119473851-33	80 - 90	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1-Butanol, titanium(4+) salt	(CAS-No.) 5593-70-4 (EC-No.) 227-006-8	< 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
Silicic acid (H4SiO4), tetrakis(2- methoxyethyl) ester	(CAS-No.) 2157-45-1 (EC-No.) 218-470-2	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
1-Butanol	(CAS-No.) 71-36-3 (EC-No.) 200-751-6 (EC Index-No.) 603-004-00-6	<1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

Full text of H-statements: see section 16

SECTION 4: First Aid Measures

4.1. Description of First-aid Measures

Title Description of this dia M	Casores
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	When symptoms occur: go into open air and ventilate
Inhalation	suspected area. Obtain medical attention if breathing difficulty persists.
First-Aid Measures After Skin	Immediately remove contaminated clothing. Immediately
Contact	drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
First-Aid Measures After Eye	Immediately rinse with water for at least 30 minutes. Remove
Contact	contact lenses, if present and easy to do. Continue rinsing. Get

immediate medical advice/attention.

First-Aid Measures After Do NOT induce vomiting. Rinse mouth. Immediately call a Ingestion POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects May cause drowsiness and dizziness. Causes skin irritation.
Causes serious eye damage. May be fatal if swallowed and enters airways.

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Symptoms/Effects After High concentrations may cause central nervous system

Inhalation depression such as dizziness, vomiting, numbness, drowsiness,

headache, and similar narcotic symptoms.

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

Contact dermatitis.

Symptoms/Effects After Eye Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Effects After Aspiration into the lungs can occur during ingestion or vomiting

Ingestion and may cause lung injury.

Chronic Symptoms Repeated exposure may cause skin dryness or cracking.

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

Extinguishing Media 5.1.

Suitable Extinguishing Media Dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO₂). 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.

Special Hazards Arising From the Substance or Mixture 5.2.

Fire Hazard Highly flammable liquid and vapour.

Explosion Hazard May form flammable or explosive vapour-air mixture. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or

explosion.

Hazardous Decomposition Incomplete combustion is likely to give rise to a complex Products in Case of Fire

mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and

inorganic compounds. Silicon oxides.

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.

Do not allow run-off from fire fighting to enter drains or water Other Information

courses.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures Do not get in eyes, on skin, or on clothing. Do not breathe

> vapor, mist or spray. 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

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

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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.

6.2. **Environmental Precautions**

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

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. Absorb and/or contain spill with inert material. 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 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.

Precautions for Safe Handling Avoid breathing vapors, mist, spray. Do not get in eyes, on skin,

> or on clothing. Take precautionary measures against static discharge. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

Handle in accordance with good industrial hygiene and safety Hygiene Measures

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

liahtina eauipment.

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 wellventilated place. Keep container tightly closed. Keep in

fireproof place.

Incompatible Materials Strong acids, strong bases, strong oxidizers.

Specific End Use(S)

For professional use only

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SECTION 8: Exposure Controls/Personal Protection

8.1. **Control Parameters**

1-Butanol (71-36-3	3)	
Austria	MAK (mg/m³)	150 mg/m³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m³)	600 mg/m³
Austria	MAK Short time value (ppm)	200 ppm
Belgium	Limit value (mg/m³)	62 mg/m³
Belgium	Limit value (ppm)	20 ppm
Belgium	OEL chemical category (BE)	Skin
Bulgaria	OEL TWA (mg/m³)	100 mg/m³
Bulgaria	OEL STEL (mg/m³)	150 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	154 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	OEL chemical category (HR)	Skin notation
Czech Republic	Expoziční limity (PEL) (mg/m³)	300 mg/m³
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Denmark	Grænseværdie (ceiling) (mg/m³)	150 mg/m³
Denmark	Grænseværdie (ceiling) (ppm)	50 ppm
Estonia	OEL TWA (mg/m³)	45 mg/m³
Estonia	OEL TWA (ppm)	15 ppm
Estonia	OEL STEL (mg/m³)	90 mg/m³
Estonia	OEL STEL (ppm)	30 ppm
Estonia	OEL chemical category (ET)	Skin notation
Finland	HTP-arvo (8h) (mg/m³)	150 mg/m³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	230 mg/m³
Finland	HTP-arvo (15 min) (ppm)	75 ppm
Finland	OEL chemical category (FI)	Potential for cutaneous absorption
France	VLE (mg/m³)	150 mg/m³
France	VLE (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	310 mg/m³ (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)	100 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	10 mg/g Parameter: 1-Butanol - Medium: urine - Sampling time: end of shift (after hydrolysis) 2 mg/g Parameter: 1-Butanol - Medium: urine - Sampling time: before beginning of next shift (after hydrolysis)

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Spain VLA-EC (mg/m³) 154 mg/m³ Spain VLA-EC (ppm) 50 ppm	Spain	VLA-ED (ppm)	20 ppm
Spain VLA-EC (ppm) 50 ppm			
	•		
	· ·	nivågränsvärde (NVG) (mg/m³)	

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Safety Data Sheet

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

Sweden	nivågränsvärde (NVG) (ppm)	15 ppm
Sweden	kortidsvärde (KTV) (mg/m³)	90 mg/m³
Sweden	kortidsvärde (KTV) (ppm)	30 ppm
Sweden	OEL chemical category (SE)	Skin notation
Switzerland	KZGW (mg/m³)	310 mg/m³
Switzerland	KZGW (ppm)	100 ppm
Switzerland	MAK (mg/m³)	310 mg/m³
Switzerland	MAK (ppm)	100 ppm
Switzerland	Switzerland - BLV	10 mg/g creatinine Parameter: n-Butanol - Medium: urine - Sampling time: end of shift 2 mg/g creatinine Parameter: n-Butanol - Medium: urine - Sampling time: at least 3 months exposure
United Kingdom	WEL STEL (mg/m³)	154 mg/m³
United Kingdom	WEL STEL (ppm)	50 ppm
United Kingdom	WEL chemical category	Potential for cutaneous absorption

8.2. Exposure Controls

Appropriate Engineering 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.
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. Gloves. Protective clothing. Protective goggles. Insufficient

ventilation: wear respiratory protection.









Materials for Protective Clothing

Personal Protective Equipment

Chemically resistant materials and fabrics. Wear fire/flame

resistant/retardant clothing.
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

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 Red
Odour Solvent

Odour Threshold No data available pH No data available

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Safety Data Sheet

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

Evaporation Rate Melting Point Freezing Point	No data available No data available No data available
Boiling Point	49 °C (120,2 °F)
Flash Point	17 °C (62,6 °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	0.8 (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

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion.

10.2. Chemical Stability

Extremely flammable liquid and vapour. 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

None expected under normal conditions of use.

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

Acute Toxicity Not classified

1-Butanol, titanium(4+) salt (5593-70-4)			
LD50 Oral Rat > 2000 mg/kg			
LD50 Oral 3122 mg/kg			
Hydrocarbons, C7-C9, n-alkanes,	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
LD50 Oral Rat > 5000 mg/kg			
LD50 Dermal Rabbit 3000 mg/kg			
1-Butanol (71-36-3)	1-Butanol (71-36-3)		
LD50 Oral Rat 700 mg/kg			

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1-Butanol (71-36-3)	
LD50 Oral	2100 mg/kg
LD50 Dermal Rabbit	3402 mg/kg
LD50 dermal	3400 mg/kg
LC50 Inhalation Rat	> 8000 ppm/4h
ATE CLP (oral)	790 mg/kg bodyweight
ATE CLP (dermal)	3400 mg/kg bodyweight
ATE CLP (gases)	8000 ppmv/4h

Skin Corrosion/Irritation Causes skin irritation.

Eye Damage/Irritation Causes serious eye damage.

Respiratory or Skin Sensitization

Germ Cell Mutagenicity

Carcinogenicity

Not classified

Not classified

Reproductive Toxicity Not classified

Specific Target Organ Toxicity (Single Exposure)

May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure) Not classified

Aspiration Hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General Toxic to aquatic life with long lasting effects.

	1 0
1-Butanol, titanium(4+) salt (559	3-70-4)
EC50 Daphnia 1	680 mg/l
1-Butanol (71-36-3)	
LC50 Fish 1	1730 - 1910 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1983 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1740 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 2	1897 - 2072 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Crustacea	4,1 mg/l

12.2. Persistence and Degradability

<u> </u>	
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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.	
1-Butanol (71-36-3)		
BCF Fish 1	0,64	
Log Pow	0,785 (at 25 °C)	

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Other Adverse Effects

Other Information Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

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

Recommendations regional, national, and international regulations.

Additional Information Handle empty containers with care because residual vapours

are flammable.

the aquatic environment. Keep out of sewers and waterways.

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					
1268	1268	1268	1268	1268	
14.2. UN Proper S	Shipping Name				
PETROLEUM	PETROLEUM	PETROLEUM	PETROLEUM	PETROLEUM	
DISTILLATES,	DISTILLATES,	DISTILLATES,	DISTILLATES,	DISTILLATES,	
N.O.S.	N.O.S.	N.O.S.	N.O.S.	N.O.S.	
(Hydrocarbons,	(Hydrocarbons,	(Hydrocarbons,	(Hydrocarbons,	(Hydrocarbons,	
C7-C9, n-alkanes,	C7-C9, n-alkanes,	C7-C9, n-alkanes,	C7-C9, n-alkanes,	C7-C9, n-alkanes,	
isoalkanes,	isoalkanes,	isoalkanes,	isoalkanes,	isoalkanes,	
cyclics)	cyclics)	cyclics)	cyclics)	cyclics)	
14.3. Transport H	azard Class(Es)				
3	3	3	3	3	
3	3	3		3	
14.4. Packing Gr	oup				
II	II	II	Not applicable	Not applicable	
14.5. Environmental Hazards					
Dangerous for	Dangerous for	Dangerous for	Dangerous for	Dangerous for	
the environment:	the environment:	the environment:	the environment:	the environment:	
Yes	Yes	Yes	Yes	Yes	
	Marine pollutant :				
	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

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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

1-Butanol, titanium(4+) salt (5593-70-4)

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

Silicic acid (H4SiO4), tetrakis(2-methoxyethyl) ester (2157-45-1)

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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

1-Butanol (71-36-3)

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	Label elements	Modified	05/11/2018
3	Composition/information on ingredients	Modified	05/11/2018
5	Hazardous decomposition products	Added	05/11/2018
9	Physical and chemical properties	Modified	05/11/2018
14	Transport information	Modified	05/11/2018

Date of Preparation or Latest Revision

05/11/2018

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
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1

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Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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 twophase system consisting of two largely immiscible solvents, in this case octanol and

MAK - Maximum Workplace Concentration/Maximum Permissible Concentration

MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyzsze Dopuszczalne Stezenie

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

NOEC - No-Observed Effect Concentration

NRD - Nevirsytinas Ribinis Dydis NTP - National Toxicology Program

OEL - Occupational Exposure Limits

PBT - Persistent, Bioaccumulative and Toxic

PFL - 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 Movenne Exposition vPvB - Very Persistent and Very Bioaccumulative

WEL - Workplace Exposure Limit WGK - Wassergefährdungsklasse

Nusil FU GHS SDS

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