

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 07/07/2020 Date of issue: 24/03/2014

Version: 2.0.

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

Product Identifier 1.1.

Product form Mixture

Product Name MED-6615 Part A Synonyms Silicone Coatina

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

NuSil Technology Europe 1198 Avenue Maurice Donat

Le Natura Bt. 2 06250 Mouains

France

+33 4 92 96 93 31

ehs@nusil.com

www.nusil.com

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

Classification of the Substance or Mixture

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

Flam. Lia. 2 H225 Skin Irrit. 2 H315 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

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

Label Elements

Signal Word (CLP)

Hazardous Ingredients

Hazard Statements (CLP)

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

Hazard Pictograms (CLP)







Danger

n-Heptane

H225 - Highly flammable liquid and vapour.

GHS08

07/07/2020 EN (English) 1/13 H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

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

Precautionary Statements (CLP)

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 mist, spray, vapours

P264 - Wash hands, forearms and face thoroughly after handling

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

P273 - Avoid release to the environment.

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

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.

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 alcohol resistant foam 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.

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

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3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]	
n-Heptane	(CAS-No.) 142-82-5 (EC-No.) 205-563-8 (EC Index-No.) 601-008-00-2	60 - 80	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	

Full text of H-statements: see section 16

SECTION 4: First Aid Measures

4.1. Description of First-aid Measures

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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.

First-Aid Measures After Eye

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

Obtain medical attention if irritation develops or persists.

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 Causes skin irritation. May be fatal if swallowed and enters

airways. May cause drowsiness and dizziness.

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

Comaci

Ingestion

Contact

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

May cause slight irritation to eyes.

and may cause lung injury.

Chronic Symptoms Repeated or prolonged skin contact may cause dermatitis and

defatting.

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.

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SECTION 5: Firefighting Measures

5.1. **Extinguishing Media**

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.

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

spread burning liquid.

Special Hazards Arising From the Substance or Mixture

Highly flammable liquid and vapour. Vapours are heavier than Fire Hazard

air and may travel considerable distance to an ignition source

and flash back to source of vapours.

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

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

explosion.

Hazardous Decomposition Products in Case of Fire

Carbon oxides (CO, CO₂). Silicon oxides.

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

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures Avoid breathing (vapour, mist, 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).

Evacuate unnecessary personnel. Stop leak if safe to do so. **Emergency Procedures**

6.1.2. For Emergency Responders

Protective Equipment Equip cleanup crew with proper protection.

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

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.

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.

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Methods For Cleaning Up Clean up spills immediately and dispose of waste safely. Absorb

and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a

pill.

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 Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe

processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Handle empty containers with care because residual vapours are

flammable.

Precautions for Safe Handling Avoid prolonged contact with eyes, skin and clothing. Avoid

breathing vapours, mist, spray. 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.

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.

Incompatible Materials Strong oxidisers, Combustible materials, Attacks some forms of

plastics, rubber, and coatings.

7.3. Specific End Use(S)

For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

n-Heptane (142-82-5)				
EU	2085 mg/m³			
EU IOELV TWA (ppm)		500 ppm		
Austria MAK (mg/m³)		2000 mg/m³ (Heptane isomers)		
Austria MAK (ppm)		500 ppm (Heptane isomers)		
Austria	MAK Short time value (mg/m³)	8000 mg/m³ (Heptane (all isomers))		

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Italy OEL TWA (mg/m³) 2085 mg/m³				
	Italy	OEL TWA (ppm)		

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Latvia	H) with its amendment Regulation (EU) 2015/830	350 mg/m³	
Latvia	OEL TWA (mg/m³)	350 mg/m³	
Lithuania	OEL TWA (ppm)	85 ppm	
	IPRV (mg/m³)	2085 mg/m³	
Lithuania	IPRV (ppm)	500 ppm	
Lithuania	TPRV (mg/m³)	3128 mg/m³	
Lithuania	TPRV (ppm)	750 ppm	
Luxembourg	OEL TWA (mg/m³)	2085 mg/m³	
Luxembourg	OEL TWA (ppm)	500 ppm	
Malta	OEL TWA (mg/m³)	2085 mg/m³	
Malta	OEL TWA (ppm)	500 ppm	
Netherlands	Grenswaarde TGG 8H (mg/m³)	1200 mg/m³	
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	1600 mg/m³	
Norway	Grenseverdier (AN) (mg/m³)	800 mg/m³	
Norway	Grenseverdier (AN) (ppm)	200 ppm	
Norway Norway	Grenseverdier (Korttidsverdi) (mg/m3) Grenseverdier (Korttidsverdi)	1000 mg/m³ (value calculated)	
,	(ppm)	250 ppm (value calculated)	
Poland	NDS (mg/m³)	1200 mg/m³	
Poland	NDSCh (mg/m³)	2000 mg/m³	
Portugal	OEL TWA (mg/m³)	2085 mg/m³ (indicative limit value)	
Portugal	OEL TWA (ppm)	500 ppm (indicative limit value)	
Portugal	OEL STEL (ppm)	500 ppm	
Romania	OEL TWA (mg/m³)	2085 mg/m³	
Romania	OEL TWA (ppm)	500 ppm	
Slovakia	NPHV (priemerná) (mg/m³)	2085 mg/m ³	
Slovakia	NPHV (priemerná) (ppm)	500 ppm	
Slovenia	OEL TWA (mg/m³)	2085 mg/m³ (applies to all isomers)	
Slovenia	OEL TWA (ppm)	500 ppm (applies to all isomers)	
Slovenia	OEL STEL (mg/m³)	2085 mg/m³ (applies to all isomers)	
Slovenia	OEL STEL (ppm)	500 ppm (applies to all isomers)	
Spain	VLA-ED (mg/m³)	2085 mg/m³ (indicative limit value)	
Spain	VLA-ED (ppm)	500 ppm (indicative limit value)	
Sweden	nivågränsvärde (NVG) (mg/m³)	800 mg/m³	
Sweden	nivågränsvärde (NVG) (ppm)	200 ppm	
Sweden	kortidsvärde (KTV) (mg/m³)	1200 mg/m³	
Sweden	kortidsvärde (KTV) (ppm)	300 ppm	
Switzerland	KZGW (mg/m³)	1600 mg/m³ (Heptane isomers)	
Switzerland	KZGW (ppm)	400 ppm (Heptane isomers)	
Switzerland	MAK (mg/m³)	1600 mg/m³	
Switzerland	MAK (ppm)	400 ppm	
United Kingdom	WEL TWA (mg/m³)	2085 mg/m³	
	· · · · · · · · · · · · · · · · · · ·	2000 1119/111	

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	United Kingdom	WEL TWA (ppm)	500 ppm	
	United Kingdom	WEL STEL (mg/m³)	6255 mg/m³ (calculated)	
United Kingdom WEL		WEL STEL (ppm)	1500 ppm (calculated)	

8.2. Exposure Controls

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

Controls 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 vapours may be released. Proper grounding procedures to avoid static

electricity should be followed. Use explosion-proof equipment.

Personal Protective Equipment

Gloves. Protective clothing. Protective goggles. Insufficient

ventilation: wear respiratory protection.









Materials for Protective Clothing

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 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 Colourless
Odour Solvent

Odour Threshold No data available No data available На **Evapouration Rate** No data available **Melting Point** No data available Freezing Point No data available **Boiling Point** 98 °C (208,4 °F) Flash Point -4 °C (24,8 °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

Specific Gravity < 1

Relative Density < 1 (Water=1)
Solubility No data available
Partition Coefficient n-Octanol/Water No data available

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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 oxidisers. Combustible materials. Attacks some forms of plastics, rubber, and coatings.

10.6. Hazardous Decomposition Products

Not expected to decompose under ambient conditions. Thermal decomposition may produce: Alkanes.

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

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

Acute toxicity Not classified	(based of available data, the classification chiefla die not mer)		
n-Heptane (142-82-5)			
LD50 Oral Rat	> 5000 mg/kg		
LD50 Dermal Rabbit	3000 mg/kg		
LC50 Inhalation Rat	103 g/m³ (Exposure time: 4 h)		
Skin Corrosion/Irritation	Causes skin irritation.		
Eye Damage/Irritation	Not classified (Based on available data, the classification		
	criteria are not met)		
Respiratory or Skin Sensitization	Not classified (Based on available data, the classification		
	criteria are not met)		
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 (Sir	ngle Exposure) May cause drowsiness or dizziness.		
Specific Target Organ Toxicity (Re	,		
Exposure) classification criteria are not met)			
Aspiration Hazard	May be fatal if swallowed and enters airways.		

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SECTION 12: Ecological Information

12.1. Toxicity

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

n-Heptane (142-82-5)	
LC50 Fish 1	375 mg/l (Exposure time: 96 h - Species: Cichlid fish)
EC50 Daphnia 1	0,1 mg/l

12.2. Persistence and Degradability

MED-6615 Part A		
Persistence and Degradability	May cause long-term adverse effects in the environment.	

12.3. Bioaccumulative Potential

MED-6615 Part A		
Bioaccumulative potential	Not established.	
n-Heptane (142-82-5)		
Log Pow	4,66	

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,

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. This material is hazardous to

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 Nur	14.1. UN Number					
1206	1206	1206	1206	1206		
14.2. UN Proper Shipping Name						
HEPTANES	HEPTANES	HEPTANES	HEPTANES	HEPTANES		
(Solution)	(Solution)	(Solution)	(Solution)	(Solution)		
14.3. Transport Hazard Class(Es)						
3	3	3	3	3		

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

ADR	IMDG	IATA	ADN	RID
3	3	3	3	3
14.4. Packing Gr	oup			
II				
14.5. Environmer	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

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

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information

Indication of Changes

Section	Section Header	Change	Date Changed
1	Identification of the substance/mixture and of the company/undertaking	Modified	07/07/2020
2	Classification According to Regulation (EC) No. 1272/2008 [CLP]	Modified	07/07/2020
3	Composition/information on ingredients	Modified	07/07/2020
4	Most important symptoms and effects, both acute and delayed	Modified	07/07/2020
5	Suitable extinguishing media	Modified	07/07/2020
6	Methods for cleaning up	Modified	07/07/2020
7	Incompatible materials	Modified	07/07/2020
8	Control parameters	Modified	07/07/2020
9	Physical and chemical properties	Modified	07/07/2020
10	Stability and reactivity	Modified	07/07/2020
11	Toxicological information	Modified	07/07/2020
12.	Ecological information	Modified	07/07/2020
14	Transport information	Modified	07/07/2020

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07/07/2020 Regulatory information Modified

Date of Preparation or Latest Revision

Data Sources

07/07/2020

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 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
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

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

IARC - International Agency for Research on Cance

IATA - International Air Transport Association IBC Code - International Bulk Chemical Code

IMDG - International Maritime Dangerous Goods

IPRV - Ilaalaikio 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 - Naiwyzsze Dopuszczalne Stezenie Chwilowe

NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe

NOAEL - No-Observed Adverse Effect Level NOFC - 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 Dvdis

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 Límite D'exposition

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

WEL - Workplace Exposure Limit

WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to

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

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

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Version: 2.0

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

1.1. Product Identifier

Product form Mixture

Product Name MED-6615 Part B Synonyms Silicone Coating

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

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]

Flam. Liq. 2 H225 Skin Irrit. 2 H315 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

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

2.2. Label Elements

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

Hazard Pictograms (CLP)

GHS02 GHS07 GHS08



Signal Word (CLP) Danger Hazardous Ingredients n-Heptane

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

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H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

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

Precautionary Statements (CLP)

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 mist, spray, vapours

P264 - Wash hands, forearms and face thoroughly after handling

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

P273 - Avoid release to the environment.

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

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.

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 alcohol resistant foam 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.

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

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3.2. **Mixtures**

	·		·
Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
n-Heptane	(CAS-No.) 142-82-5 (EC-No.) 205-563-8 (EC Index-No.) 601-008-00-2	60 - 80	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS-No.) 68037-59-2	< 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Glycidoxypropyltrime thoxysilane	(CAS-No.) 2530-83-8 (EC-No.) 219-784-2	< 1	Eye Dam. 1, H318
3-Butyn-2-ol, 2- methyl-	(CAS-No.) 115-19-5 (EC-No.) 204-070-5	< 0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H-statements: see section 16

SECTION 4: First Aid Measures

Description of First-aid Measures 4.1.

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	Rinse cautiously with water for at least 15 minutes. Remove
Contact	contact lenses, if present and easy to do. Continue rinsing.
	Obtain medical attention if irritation develops or persists.
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	Causes skin irritation. May be fatal if swallowed and enters
	airways. May cause drowsiness and dizziness.
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	May cause slight irritation to eyes.
Contact	

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

and may cause lung injury.

Chronic Symptoms Repeated or prolonged skin contact may cause dermatitis and defatting.

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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

(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.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard Highly flammable liquid and vapour. Vapours are heavier than

air and may travel considerable distance to an ignition source

and flash back to source of vapours.

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

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

explosion.

Hazardous Decomposition Products in Case of Fire

Carbon oxides (CO, CO₂). Silicon oxides.

5.3. Advice for Firefighters

Precautionary Measures Fire

Exercise caution when fighting any chemical fire.

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 Avoid breathing (vapour, mist, 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.

6.2. Environmental Precautions

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

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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. Absorb

and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. 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 Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe

processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Handle empty containers with care because residual vapours are

flammable.

Precautions for Safe Handling Avoid prolonged contact with eyes, skin and clothing. Avoid

breathing vapours, mist, spray. 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.

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.

Incompatible Materials Strong oxidisers. Combustible materials. Attacks some forms of

plastics, rubber, and coatings.

7.3. Specific End Use(S)

For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

n-Heptane (142-82-5)		
EU	IOELV TWA (mg/m³)	2085 mg/m³
EU	IOELV TWA (ppm)	500 ppm

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Austria	MAK (mg/m³)	2000 mg/m³ (Heptane isomers)
Austria	MAK (ppm)	500 ppm (Heptane isomers)
Austria	MAK Short time value (mg/m³)	8000 mg/m³ (Heptane (all isomers))
Austria	MAK Short time value (ppm)	2000 ppm (Heptane (all isomers))
Belgium	Limit value (mg/m³)	1664 mg/m³
Belgium	Limit value (ppm)	400 ppm
Belgium	Short time value (mg/m³)	2085 mg/m³
Belgium	Short time value (ppm)	500 ppm
Bulgaria	OEL TWA (mg/m³)	1600 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	2085 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	500 ppm
Croatia	OEL chemical category (HR)	Skin notation
Cyprus	OEL TWA (mg/m³)	2085 mg/m³
Cyprus	OEL TWA (ppm)	500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m³)	1000 mg/m³
Denmark	Grænseværdie (langvarig) (mg/m³)	820 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Estonia	OEL TWA (mg/m³)	2085 mg/m³
Estonia	OEL TWA (ppm)	500 ppm
Finland	HTP-arvo (8h) (mg/m³)	1200 mg/m³ (Heptane)
Finland	HTP-arvo (8h) (ppm)	300 ppm (Heptane)
Finland	HTP-arvo (15 min)	2100 mg/m³
Finland	HTP-arvo (15 min) (ppm)	500 ppm
France	VLE (mg/m³)	2085 mg/m³ (restrictive limit)
France	VLE (ppm)	500 ppm (restrictive limit)
France	VME (mg/m³)	1668 mg/m³ (restrictive limit)
France	VME (ppm)	400 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m³)	2100 mg/m³ (all isomers)
Germany	Occupational exposure limit value (ppm)	500 ppm (all isomers)
Gibraltar	Eight hours mg/m3	2085 mg/m³
Gibraltar	Eight hours ppm	500 ppm
Greece	OEL TWA (mg/m³)	2000 mg/m³
Greece	OEL TWA (ppm)	500 ppm
Greece	OEL STEL (mg/m³)	2000 mg/m³
Greece	OEL STEL (ppm)	500 ppm
Hungary	AK-érték	2000 mg/m³
Ireland	OEL (8 hours ref) (mg/m³)	2085 mg/m³
Ireland	OEL (8 hours ref) (ppm)	500 ppm

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Ireland	According to Regulation (EC) No. 1907/2006 (REACH	l) with its amendment Regulation (EU) 2015/830	
Italy	Ireland	OEL (15 min ref) (mg/m3)	6255 mg/m³ (calculated)
Italy	Ireland	OEL (15 min ref) (ppm)	
Latvia	Italy	OEL TWA (mg/m³)	2085 mg/m³
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Lithuania TPRV (ppm) 750 ppm Luxembourg OEL TWA (mg/m²) 2085 mg/m³ Luxembourg OEL TWA (ppm) 500 ppm Malta OEL TWA (mg/m²) 2085 mg/m³ Malta OEL TWA (mg/m²) 500 ppm Netherlands Grenswaarde TGG 8H (mg/m³) 1400 mg/m³ Netherlands Grenswaarde TGG 15MIN (mg/m³) 800 mg/m³ Norway Grenseverdier (AN) (mg/m³) 200 ppm Norway Grenseverdier (AN) (ppm) 200 ppm Norway Grenseverdier (Korttidsverdi) (mg/m³) 1000 mg/m³ (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 250 ppm (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 2000 mg/m³ Poland NDS (mg/m³) 12000 mg/m³ Poland NDS (mg/m³) 2000 mg/m³ Portugal OEL TWA (mg/m²) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (mg/m²) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (mg/m²) 2085 mg/m³ Romania OEL TWA (mg/m²) 2085 mg/m³ Slovakia NPHV (priemerná) (mg/m²) 2085 mg/m³ Slovakia NPHV (priemerná) (ppm) 500 ppm Slovenia OEL TWA (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Spain VLA-ED (ppm) 500 ppm (indicative limit value) Spain VLA-ED (ppm) 500 ppm (applies to all isomers) Spain VLA-ED (ppm) 500 ppm (indicative limit value) Sweden nivágränsvärde (NVG) (ppm) 200 ppm	Lithuania	IPRV (ppm)	500 ppm
Luxembourg OEL TWA (mg/m³) 2085 mg/m³ Luxembourg OEL TWA (ppm) 500 ppm Malta OEL TWA (ppm) 500 ppm Malta OEL TWA (ppm) 500 ppm Netherlands OEL TWA (ppm) 500 ppm Netherlands Grenswaarde TGG 8H (mg/m³) 1200 mg/m³ Norway Grenseverdier (AN) (mg/m³) 800 mg/m³ Norway Grenseverdier (AN) (mg/m³) 200 ppm Norway Grenseverdier (Korttidsverdi) (mg/m³) 1000 mg/m³ (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 250 ppm (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 250 ppm (value calculated) Poland NDS (mg/m³) 1200 mg/m³ Portugal NDSCh (mg/m³) 2005 mg/m³ Portugal OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (ppm) 500 ppm Romania OEL TWA (ppm) 500 ppm Romania OEL TWA (ppm) 500 ppm Slovakia NPHV (priemerná) (mg/m³) 2085 mg/m³ Slovakia NPHV (priemerná) (ppm) 500 ppm Slovenia OEL TWA (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (indicative limit value) Spain VLA-ED (ppm) 500 ppm (indicative limit value) Spain VLA-ED (ppm) 500 ppm (indicative limit value)	Lithuania	TPRV (mg/m³)	3128 mg/m³
Luxembourg OEL TWA (ppm) 500 ppm Malta OEL TWA (mg/m²) 2085 mg/m³ Malta OEL TWA (ppm) 500 ppm Netherlands Grenswaarde TGG 8H (mg/m³) 1200 mg/m³ Netherlands Grenswaarde TGG 15MIN (mg/m³) 1600 mg/m³ Norway Grenseverdier (AN) (mg/m³) 800 mg/m³ Norway Grenseverdier (Kortlidsverdi) (mg/m³) 200 ppm Norway Grenseverdier (Kortlidsverdi) (ppm) 250 ppm (value calculated) Norway Grenseverdier (Kortlidsverdi) (ppm) 250 ppm (value calculated) Norway Grenseverdier (Kortlidsverdi) (ppm) 2000 mg/m³ (value calculated) Poland NDS (mg/m³) 1200 mg/m³ Poland NDS (mg/m³) 2000 mg/m³ Portugal OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (ppm) 500 ppm (indicative limit value) Portugal OEL TWA (ppm) 500 ppm Romania OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Slovakia NPHV (priemerná) (mg/m³) 2085 mg/m³ (applies to all isomers)	Lithuania	TPRV (ppm)	750 ppm
Malta OEL TWA (mg/m³) 2085 mg/m³ Malta OEL TWA (ppm) 500 ppm Netherlands Grenswaarde TGG 8H (mg/m³) 1200 mg/m³ (mg/m³) Netherlands Grenswaarde TGG 15MIN (mg/m³) 1600 mg/m³ Norway Grenseverdier (AN) (mg/m³) 800 mg/m³ Norway Grenseverdier (AN) (ppm) 200 ppm Norway Grenseverdier (Korttidsverdi) (mg/m³) 1000 mg/m³ (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 250 ppm (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 2000 mg/m³ Poland NDS (mg/m³) 1200 mg/m³ Poland NDSCh (mg/m³) 2000 mg/m³ Portugal OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (mg/m³) 500 ppm (indicative limit value) Portugal OEL STEL (ppm) 500 ppm Romania OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (ppm) 500 ppm Slovakia NPHV (priemerná) (mg/m³) 2085 mg/m³ Slovakia NPH	Luxembourg	OEL TWA (mg/m³)	2085 mg/m³
Malta OEL TWA (ppm) 500 ppm Netherlands Grenswaarde TGG 8H (mg/m³) 1200 mg/m³ Netherlands Grenswaarde TGG 15MIN (mg/m³) 1600 mg/m³ Norway Grenseverdier (AN) (mg/m³) 800 mg/m³ Norway Grenseverdier (AN) (ppm) 200 ppm Norway Grenseverdier (Korttidsverdi) (mg/m³) 1000 mg/m³ (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 250 ppm (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 2000 mg/m³ Poland NDS (mg/m³) 1200 mg/m³ Poland NDS (mg/m³) 2000 mg/m³ Portugal OEL TWA (mg/m³) 2000 mg/m³ Portugal OEL TWA (ppm) 500 ppm (indicative limit value) Portugal OEL STEL (ppm) 500 ppm Romania OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (ppm) 500 ppm Slovakia NPHV (priemerná) (mg/m³) 2085 mg/m³ Slovakia NPHV (priemerná) (ppm) 500 ppm Slovenia OEL TWA (mg/m³)	Luxembourg	OEL TWA (ppm)	500 ppm
Netherlands Grenswaarde TGG 8H (mg/m³) 1200 mg/m³ Netherlands Grenswaarde TGG 15MIN (mg/m³) 1600 mg/m³ Norway Grenseverdier (AN) (mg/m³) 800 mg/m³ Norway Grenseverdier (Korttidsverdi) (mg/m³) 200 ppm Norway Grenseverdier (Korttidsverdi) (mg/m³) 1000 mg/m³ (value calculated) Norway Grenseverdier (Korttidsverdi) (ppm) 250 ppm (value calculated) Poland NDS (mg/m³) 1200 mg/m³ Poland NDS (mg/m³) 2000 mg/m³ Portugal OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (ppm) 500 ppm (indicative limit value) Portugal OEL TWA (ppm) 500 ppm Romania OEL TWA (mg/m³) 2085 mg/m³ Romania OEL TWA (mg/m³) 2085 mg/m³ Slovakia NPHV (priemerná) (mg/m³) 2085 mg/m³ Slovenia OEL TWA (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL TWA (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Spain VLA-ED (mg/m³) 2085 mg/m³ (indicative limit value) Sweden nivågränsvärde (NVG) (ppm) 200 ppm	Malta	OEL TWA (mg/m³)	2085 mg/m³
(mg/m³)	Malta	OEL TWA (ppm)	500 ppm
(mg/m³) 800 mg/m³ 800 mg/m³ Norway Grenseverdier (AN) (mg/m³) 800 mg/m³ 800	Netherlands		1200 mg/m³
Norway Grenseverdier (AN) (ppm) Orway Grenseverdier (Korttidsverdi) (mg/m3) Norway Grenseverdier (Korttidsverdi) (ppm) 250 ppm (value calculated) Poland NDS (mg/m³) Poland NDSCh (mg/m³) Portugal OEL TWA (mg/m³) OEL TWA (ppm) Son ppm (indicative limit value) Portugal OEL TWA (mg/m³) NPHV (priemerná) (mg/m³) Slovakia NPHV (priemerná) (ppm) Son ppm	Netherlands		1600 mg/m³
Norway Grenseverdier (Korttidsverdi) (mg/m3) Norway Grenseverdier (Korttidsverdi) (ppm) 250 ppm (value calculated) Poland NDS (mg/m³) Poland NDSCh (mg/m³) Portugal OEL TWA (mg/m³) OEL TWA (ppm) Portugal OEL STEL (ppm) Son ppm Romania OEL TWA (mg/m³) NPHV (priemerná) (mg/m³) Slovakia NPHV (priemerná) (ppm) Son ppm Son ppm Slovakia NPHV (priemerná) (ppm) Son ppm Slovakia NPHV (priemerná) (ppm) Son ppm Slovakia NPHV (priemerná) (ppm) Son ppm Slovenia OEL TWA (mg/m³) Slovenia OEL TWA (ppm) Son ppm (applies to all isomers) Slovenia OEL TWA (ppm) Son ppm (applies to all isomers) Slovenia OEL STEL (ppm) Son ppm (applies to all isomers) Slovenia OEL STEL (ppm) Son ppm (applies to all isomers) Slovenia OEL STEL (ppm) Son ppm (applies to all isomers) Sovenia OEL STEL (ppm) Son ppm (applies to all isomers) Sovenia OEL STEL (ppm) Son ppm (applies to all isomers) Son ppm (applies to all isomers) Sovenia OEL STEL (ppm) Son ppm (indicative limit value) Spain VLA-ED (ppm) Son ppm (indicative limit value) Sweden nivågränsvärde (NVG) (mg/m³) Sweden nivågränsvärde (NVG) (ppm) 200 ppm	Norway	Grenseverdier (AN) (mg/m³)	800 mg/m³
Norway(mg/m3)1000 mg/m³ (value calculated)NorwayGrenseverdier (Korttidsverdi) (ppm)250 ppm (value calculated)PolandNDS (mg/m³)1200 mg/m³PolandNDSCh (mg/m³)2000 mg/m³PortugalOEL TWA (mg/m³)2085 mg/m³ (indicative limit value)PortugalOEL TWA (ppm)500 ppm (indicative limit value)PortugalOEL STEL (ppm)500 ppmRomaniaOEL TWA (mg/m³)2085 mg/m³RomaniaOEL TWA (ppm)500 ppmSlovakiaNPHV (priemerná) (mg/m³)2085 mg/m³SlovakiaNPHV (priemerná) (ppm)500 ppmSloveniaOEL TWA (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL TWA (ppm)500 ppm (applies to all isomers)SloveniaOEL STEL (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL STEL (ppm)500 ppm (applies to all isomers)SloveniaOEL STEL (ppm)500 ppm (applies to all isomers)SpainVLA-ED (mg/m³)2085 mg/m³ (indicative limit value)SpainVLA-ED (ppm)500 ppm (indicative limit value)Swedennivågränsvärde (NVG) (mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Norway	Grenseverdier (AN) (ppm)	200 ppm
(ppm) 250 ppm (value calculated)	Norway	· · · · · · · · · · · · · · · · · · ·	1000 mg/m³ (value calculated)
Poland Portugal Portugal OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (ppm) OEL STEL (ppm) Sou ppm (indicative limit value) Portugal OEL TWA (mg/m³) OEL STEL (ppm) Sou ppm Romania OEL TWA (mg/m³) 2085 mg/m³ Romania OEL TWA (ppm) Sou ppm Slovakia NPHV (priemerná) (mg/m³) Slovakia NPHV (priemerná) (ppm) Sou ppm Slovenia OEL TWA (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL TWA (ppm) Sou ppm (applies to all isomers) Slovenia OEL STEL (mg/m³) Slovenia OEL STEL (ppm) Sou ppm (applies to all isomers) Slovenia OEL STEL (ppm) Sou ppm (applies to all isomers) Slovenia OEL STEL (ppm) Sou ppm (applies to all isomers) Spain VLA-ED (mg/m³) Sweden nivågränsvärde (NVG) (mg/m³) Sweden nivågränsvärde (NVG) (ppm) Sou ppm Sou ppm	Norway		250 ppm (value calculated)
Portugal OEL TWA (mg/m³) 2085 mg/m³ (indicative limit value) Portugal OEL TWA (ppm) 500 ppm (indicative limit value) Portugal OEL STEL (ppm) 500 ppm Romania OEL TWA (mg/m³) 2085 mg/m³ Romania OEL TWA (ppm) 500 ppm Slovakia NPHV (priemerná) (mg/m³) 2085 mg/m³ Slovakia NPHV (priemerná) (ppm) 500 ppm Slovania OEL TWA (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL TWA (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL STEL (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Spain VLA-ED (mg/m³) 2085 mg/m³ (indicative limit value) Spain VLA-ED (ppm) 500 ppm (indicative limit value) Sweden nivågränsvärde (NVG) (mg/m³) 800 mg/m³ Sweden nivågränsvärde (NVG) (ppm) 200 ppm	Poland	NDS (mg/m³)	1200 mg/m³
Portugal OEL TWA (ppm) 500 ppm (indicative limit value) Portugal OEL STEL (ppm) 500 ppm Romania OEL TWA (mg/m³) 2085 mg/m³ Romania OEL TWA (ppm) 500 ppm Slovakia NPHV (priemerná) (mg/m³) 2085 mg/m³ Slovakia NPHV (priemerná) (ppm) 500 ppm Slovenia OEL TWA (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL TWA (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Spain VLA-ED (mg/m³) 2085 mg/m³ (indicative limit value) Spain VLA-ED (ppm) 500 ppm (indicative limit value) Sweden nivågränsvärde (NVG) (mg/m³) 800 mg/m³ Sweden nivågränsvärde (NVG) (ppm) 200 ppm	Poland	NDSCh (mg/m³)	2000 mg/m³
Portugal OEL STEL (ppm) 500 ppm Romania OEL TWA (mg/m³) 2085 mg/m³ Romania OEL TWA (ppm) 500 ppm Slovakia NPHV (priemerná) (mg/m³) 2085 mg/m³ Slovakia NPHV (priemerná) (ppm) 500 ppm Slovenia OEL TWA (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL TWA (ppm) 500 ppm (applies to all isomers) Slovenia OEL STEL (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL STEL (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) Spain VLA-ED (mg/m³) 2085 mg/m³ (indicative limit value) Spain VLA-ED (ppm) 500 ppm (indicative limit value) Sweden nivågränsvärde (NVG) (ppm) 800 mg/m³ Sweden nivågränsvärde (NVG) (ppm) 200 ppm	Portugal	OEL TWA (mg/m³)	2085 mg/m³ (indicative limit value)
Romania OEL TWA (mg/m³) 2085 mg/m³ Romania OEL TWA (ppm) 500 ppm Slovakia NPHV (priemerná) (mg/m³) Slovakia NPHV (priemerná) (ppm) Slovenia OEL TWA (mg/m³) Slovenia OEL TWA (mg/m³) Slovenia OEL TWA (ppm) Suvenia OEL TWA (ppm) OEL TWA (ppm) Suvenia OEL STEL (mg/m³) Slovenia OEL STEL (mg/m³) Slovenia OEL STEL (ppm) Suvenia Suvenia Suvenia VLA-ED (mg/m³) Suvenia Suvenia VLA-ED (ppm) Suvenia Suvenia VLA-ED (ppm) Suvenia Suvenia VLA-ED (ppm) Suvenia Suvenia Suvenia VLA-ED (ppm) Suvenia	Portugal	OEL TWA (ppm)	500 ppm (indicative limit value)
RomaniaOEL TWA (ppm)500 ppmSlovakiaNPHV (priemerná) (mg/m³)2085 mg/m³SlovakiaNPHV (priemerná) (ppm)500 ppmSloveniaOEL TWA (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL TWA (ppm)500 ppm (applies to all isomers)SloveniaOEL STEL (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL STEL (ppm)500 ppm (applies to all isomers)SpainVLA-ED (mg/m³)2085 mg/m³ (indicative limit value)SpainVLA-ED (ppm)500 ppm (indicative limit value)Swedennivågränsvärde (NVG) (mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Portugal	OEL STEL (ppm)	500 ppm
Slovakia NPHV (priemerná) (mg/m³) Slovakia NPHV (priemerná) (ppm) Slovenia OEL TWA (mg/m³) Slovenia OEL TWA (ppm) Slovenia OEL TWA (ppm) Slovenia OEL STEL (mg/m³) Slovenia OEL STEL (mg/m³) Slovenia OEL STEL (ppm) Spain VLA-ED (mg/m³) Spain VLA-ED (ppm) Sweden nivågränsvärde (NVG) (ppm) Sweden NPHV (priemerná) (mg/m³) 2085 mg/m³ (applies to all isomers) 500 ppm (applies to all isomers) 500 ppm (indicative limit value) Sweden nivågränsvärde (NVG) (mg/m³) Sweden nivågränsvärde (NVG) (ppm) 200 ppm	Romania	OEL TWA (mg/m³)	2085 mg/m³
SlovakiaNPHV (priemerná) (ppm)500 ppmSloveniaOEL TWA (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL TWA (ppm)500 ppm (applies to all isomers)SloveniaOEL STEL (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL STEL (ppm)500 ppm (applies to all isomers)SpainVLA-ED (mg/m³)2085 mg/m³ (indicative limit value)SpainVLA-ED (ppm)500 ppm (indicative limit value)Swedennivågränsvärde (NVG) (mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Romania	OEL TWA (ppm)	500 ppm
SloveniaOEL TWA (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL TWA (ppm)500 ppm (applies to all isomers)SloveniaOEL STEL (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL STEL (ppm)500 ppm (applies to all isomers)SpainVLA-ED (mg/m³)2085 mg/m³ (indicative limit value)SpainVLA-ED (ppm)500 ppm (indicative limit value)Swedennivågränsvärde (NVG) (mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Slovakia	NPHV (priemerná) (mg/m³)	2085 mg/m³
SloveniaOEL TWA (ppm)500 ppm (applies to all isomers)SloveniaOEL STEL (mg/m³)2085 mg/m³ (applies to all isomers)SloveniaOEL STEL (ppm)500 ppm (applies to all isomers)SpainVLA-ED (mg/m³)2085 mg/m³ (indicative limit value)SpainVLA-ED (ppm)500 ppm (indicative limit value)Swedennivågränsvärde (NVG) (mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovenia OEL STEL (mg/m³) 2085 mg/m³ (applies to all isomers) Slovenia OEL STEL (ppm) 500 ppm (applies to all isomers) VLA-ED (mg/m³) Spain VLA-ED (mg/m³) VLA-ED (ppm) Sweden nivågränsvärde (NVG) (mg/m³) Sweden nivågränsvärde (NVG) (ppm) 200 ppm	Slovenia	OEL TWA (mg/m³)	2085 mg/m³ (applies to all isomers)
SloveniaOEL STEL (ppm)500 ppm (applies to all isomers)SpainVLA-ED (mg/m³)2085 mg/m³ (indicative limit value)SpainVLA-ED (ppm)500 ppm (indicative limit value)Swedennivågränsvärde (NVG) (mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Slovenia	OEL TWA (ppm)	500 ppm (applies to all isomers)
SpainVLA-ED (mg/m³)2085 mg/m³ (indicative limit value)SpainVLA-ED (ppm)500 ppm (indicative limit value)Swedennivågränsvärde (NVG) (mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Slovenia	OEL STEL (mg/m³)	2085 mg/m³ (applies to all isomers)
SpainVLA-ED (ppm)500 ppm (indicative limit value)Swedennivågränsvärde (NVG) (mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Slovenia	OEL STEL (ppm)	500 ppm (applies to all isomers)
Sweden nivågränsvärde (NVG) (mg/m³) 800 mg/m³ Sweden nivågränsvärde (NVG) (ppm) 200 ppm	Spain	VLA-ED (mg/m³)	2085 mg/m³ (indicative limit value)
(mg/m³)800 mg/m³Swedennivågränsvärde (NVG) (ppm)200 ppm	Spain	VLA-ED (ppm)	500 ppm (indicative limit value)
	Sweden		800 mg/m³
	Sweden	nivågränsvärde (NVG) (ppm)	200 ppm
	Sweden	kortidsvärde (KTV) (mg/m³)	
Sweden kortidsvärde (KTV) (ppm) 300 ppm	Sweden	kortidsvärde (KTV) (ppm)	
Switzerland KZGW (mg/m³) 1600 mg/m³ (Heptane isomers)	Switzerland		

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Switzerland	KZGW (ppm)	400 ppm (Heptane isomers)
Switzerland	MAK (mg/m³)	1600 mg/m³
Switzerland	MAK (ppm)	400 ppm
United Kingdom	WEL TWA (mg/m³)	2085 mg/m³
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m³)	6255 mg/m³ (calculated)
United Kingdom	WEL STEL (ppm)	1500 ppm (calculated)
3-Butyn-2-ol, 2-methyl- (115-	19-5)	
Austria	MAK (mg/m³)	3 mg/m³
Austria	MAK (ppm)	0,9 ppm
Austria	MAK Short time value (mg/m³)	6 mg/m³
Austria	MAK Short time value (ppm)	1,8 ppm
Germany	Occupational exposure limit value (mg/m³)	3 mg/m³
Germany	Occupational exposure limit value (ppm)	0,9 ppm

8.2. Exposure Controls

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

Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas

detectors should be used when flammable gases or vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Gloves. Protective clothing. Protective goggles. Insufficient

Personal Protective Equipment Gloves. Protective clothing. Protective question: wear respiratory protection.









Materials for Protective Clothing

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 Colourless
Odour Solvent

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According to Regulation (EC) No. 1707/2008 (REACH) With its differial field Regula	111011 (EU) 2013/030
Odour Threshold	No data available
рН	No data available
Evapouration Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	98 °C (208,4 °F)
Flash Point	-4 °C (25 °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)
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 oxidisers. Combustible materials. Attacks some forms of plastics, rubber, and coatings.

10.6. Hazardous Decomposition Products

Not expected to decompose under ambient conditions. Thermal decomposition may produce: Alkanes.

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

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

,		
n-Heptane (142-82-5)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rabbit	3000 mg/kg	
LC50 Inhalation Rat	103 g/m³ (Exposure time: 4 h)	
3-Butyn-2-ol, 2-methyl- (115-19-5)		
LD50 Oral Rat	1950 mg/kg	

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According to Regulation (EC) No. 1907/2006 (REACH) with its amenament Regulation (EU) 2013/650		
3-Butyn-2-ol, 2-methyl- (115-19-5)		
LD50 Dermal Rat	> 2000 mg/kg	
LC50 Inhalation Rat	> 21300 mg/m³ (Exposure time: 4 h)	
Glycidoxypropyltrimethoxysilane	(2530-83-8)	
LD50 Oral Rat	8025 mg/kg	
LD50 Dermal Rabbit	4250 mg/kg	
LC50 Inhalation Rat	> 5,3 mg/l/4h	
Skin Corrosion/Irritation	Causes skin irritation.	
Eye Damage/Irritation	Not classified (Based on available data, the classification	
	criteria are not met)	
Respiratory or Skin Sensitization	Not classified (Based on available data, the classification	
Compa Call M. Hararaniaith	criteria are not met)	
Germ Cell Mutagenicity	Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	Not classified (Based on available data, the classification	
Carcinogorneny	criteria are not met)	
Reproductive Toxicity	Not classified (Based on available data, the	
	classification criteria are not met)	
Specific Target Organ Toxicity (Sin		
Specific Target Organ Toxicity (Re	· ·	
Exposure)	classification criteria are not met)	
Aspiration Hazard	May be fatal if swallowed and enters airways.	

SECTION 12: Ecological Information

12.1. Toxicity

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

LCOlogy - Ochleral	very toxic to adodne life with long lasting effects.	
n-Heptane (142-82-5)		
LC50 Fish 1	375 mg/l (Exposure time: 96 h - Species: Cichlid fish)	
EC50 Daphnia 1	0,1 mg/l	
3-Butyn-2-ol, 2-methyl- (115-19-5)		
LC50 Fish 1	3120 (3120 - 3480) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	500 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 Other Aquatic Organisms 1	500 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)	
LC50 Fish 2	2200 (2200 - 4600) mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])	
EC50 Other Aquatic Organisms 2	500 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)	
Glycidoxypropyltrimethoxysilane (2530-83-8)		
LC50 Fish 1	55 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)	
EC50 Daphnia 1	710 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
ErC50 (Algae)	350 mg/l Exposure time: 96 h - Species: Pseudokirchnerella subcapitata)	
Glycidoxypropyltrimethoxysilane (LC50 Fish 1 EC50 Daphnia 1	subspicatus) 2530-83-8) 55 mg/l (Exposure time: 96 h - Species: Cyprinus carpio) 710 mg/l (Exposure time: 48 h - Species: Daphnia magna) 350 mg/l Exposure time: 96 h - Species: Pseudokirchnerella	

12.2. Persistence and Degradability

	,	
LMFD-6615 Part B		
MED-0013 Part B		

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MED-6615 Part B	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

MED-6615 Part B		
Bioaccumulative potential	Not established.	
n-Heptane (142-82-5)		
Log Pow	4,66	
3-Butyn-2-ol, 2-methyl- (115-19-5)		
Log Pow	0,318 (at 25 °C)	

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other Adverse Effects

Other Information Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Product/Packaging Disposal Dispose of contents/container in accordance with 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. This material is hazardous to

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				
1206	1206	1206	1206	1206
14.2. UN Proper S	Shipping Name			
HEPTANES	HEPTANES	HEPTANES	HEPTANES	HEPTANES
(Solution)	(Solution)	(Solution)	(Solution)	(Solution)
14.3. Transport H	azard Class(Es)			
3	3	3	3	3
3	3	3	3	3
14.4. Packing Group				
II	II	II	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 :
Yes	Yes	Yes	Yes	Yes

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ADR	IMDG	IATA	ADN	RID
	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

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

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	07/07/2020
2	Classification According to Regulation (EC) No. 1272/2008 [CLP]	Modified	07/07/2020
3	Composition/information on ingredients	Modified	07/07/2020
4	Most important symptoms and effects, both acute and delayed	Modified	07/07/2020
5	Suitable extinguishing media	Modified	07/07/2020
6	Methods for cleaning up	Modified	07/07/2020
7	Incompatible materials	Modified	07/07/2020
8	Control parameters	Modified	07/07/2020
9	Physical and chemical properties	Modified	07/07/2020
10	Stability and reactivity	Modified	07/07/2020
11	Toxicological information	Modified	07/07/2020
12.	Ecological information	Modified	07/07/2020
14	Transport information	Modified	07/07/2020
15	Regulatory information	Modified	07/07/2020

Date of Preparation or Latest Revision

Data Sources

07/07/2020

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.

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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 Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly 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.
H336	May cause drowsiness or dizziness.
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 Hyaienists

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

- 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

water

MAK - Maximum Workplace Concentration/Maximum Permissible Concentration MARPOL - International Convention for the Prevention of Pollution

NDS - Naiwyzsze Dopuszczalne Stezenie

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

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

NTP - National Toxicology Program

OEL - Occupational Exposure Limits

PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

pH – Potential Hydrogen

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

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

SADT - Self Accelerating Decomposition Temperature

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

– Volatile Organic Compounds VLA-EC - Valor Límite Ambiental Exposición de Corta Duración VLA-ED - Valor Límite Ambiental Exposición Diaria

VLE – Valeur Limite D'exposition

VMF - Valeur Limite De Movenne Exposition

vPvB - Very Persistent and Very Bioaccumulative

WEL - Workplace Exposure Limit WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL TECHNOLOGY LLC AND ITS AFFILIATED COMPANIES ("NUSIL") EXPRESSLYDISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY.

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This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.

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