

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Revision date: 14/01/2021 Date of issue: 20/12/2013

Version: 3.0

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

1.1. Product Identifier

Product form Mixture
Product Name MED16-6606
Synonyms Silicone Dispersion

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

1.2.1. Relevant Identified Uses

Use of the Substance/Mixture For professional use only.

1.2.2. Uses Advised Against

No additional information available

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 : +1 703-527-3887 CHEMTREC (International and Maritime), 800-424-9300
CHEMTREC (in US)
+(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
Eye Dam. 1 H318
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)



Signal Word (CLP)

Danger

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| | |
|--------------------------------|--|
| Hazardous Ingredients | Heptane, branched, cyclic and linear; Silanetriol, ethyl-, triacetate |
| Hazard Statements (CLP) | H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H318 - Causes serious eye damage. 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/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 gloves/protective clothing/eye protection/face protection/hearing protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. 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 label). 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 media other than water to extinguish. P391 - Collect spillage. P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| EUH-statements | EUH014 - Reacts violently with water. |

2.3. Other Hazards

Other Hazards Not Contributing Exposure may aggravate pre-existing eye, skin, or respiratory

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to the Classification conditions.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product Identifier | % | Classification According to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------|---|---------|---|
| Heptane, branched, cyclic and linear | (CAS-No.) 426260-76-6 (EC-No.) 610-052-1 | 60 – 80 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 1, H410 |
| Silanetriol, ethyl-, triacetate | (CAS-No.) 17689-77-9 (EC-No.) 241-677-4 | < 5 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| Glycidoxypropyltrimethoxysilane | (CAS-No.) 2530-83-8 (EC-No.) 219-784-2 | < 1 | Eye Dam. 1, H318 |
| Dibutyltin diacetate | (CAS-No.) 1067-33-0 (EC-No.) 213-928-8 | < 0,1 | Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

Full text of H-statements: see section 16

SECTION 4: First Aid Measures

4.1. Description of First-aid Measures

| | |
|---------------------------------------|---|
| First-Aid Measures General | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-Aid Measures After Inhalation | If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. |
| First-Aid Measures After Skin Contact | Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse. |
| First-Aid Measures After Eye Contact | Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. |

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First-Aid Measures After Ingestion Seek medical attention if a large amount is swallowed. Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

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

Symptoms/Effects After Inhalation High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

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

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

Symptoms/Effects After Ingestion Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms None expected under normal conditions of use.

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

If medical advice is needed, have product container or label at hand. If exposed or concerned, get medical advice and attention.

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. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Will float and can be reignited on water surface.

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

Reactivity Highly flammable liquid and vapour. 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. Under fire conditions, hazardous fumes will be present.

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. Avoid release to the environment.

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

Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Use special care to avoid static electric charges. 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. Do not breathe vapor, mist or spray.

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. Eliminate ignition sources first, then ventilate the area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods For Cleaning Up

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

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. 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. When heated, material emits irritating fumes.

Precautions for Safe Handling

Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. 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. Avoid breathing vapours, mist, spray. Take precautionary measures against static discharge. Do not get in eyes, on skin, or on clothing.

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Hygiene Measures

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures

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

Storage Conditions

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

Incompatible Materials

Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(S)

Provides good adhesion to metals and other substrates. For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

| Heptane, branched, cyclic and linear (426260-76-6) | | |
|--|--|--|
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 1000 mg/m ³ |
| Tin organic compounds | | |
| Austria | MAK Daily average value (mg/m ³) | 0,1 mg/m ³ (except tri-n-Butyltin compounds-inhalable fraction) |
| Austria | MAK Short time value [mg/m ³] | 0,2 mg/m ³ (except Tri-n-butyltin compounds-inhalable fraction) |
| Austria | OEL chemical category (AT) | Skin notation except Tri-n-butyltin compounds |
| Belgium | Limit value [mg/m ³] | 0,1 mg/m ³ |
| Belgium | Short time value [mg/m ³] | 0,2 mg/m ³ |
| Belgium | OEL chemical category (BE) | Skin |
| Bulgaria | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 0,1 mg/m ³ (except Cyhexatin) |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³) | 0,2 mg/m ³ (except Cyhexatin) |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 0,1 mg/m ³ |
| Czech Republic | OEL chemical category (CZ) | Potential for cutaneous absorption |
| Denmark | Grænseværdi (8 timer) (mg/m ³) | 0,1 mg/m ³ (except Tri-n-butyltin compounds) |
| Estonia | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Estonia | OEL STEL (mg/m ³) | 0,2 mg/m ³ |
| Estonia | OEL chemical category (ET) | Skin notation |
| Finland | HTP-arvo (8h) (mg/m ³) | 0,1 mg/m ³ |
| Finland | HTP-arvo (15 min) | 0,3 mg/m ³ |

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| | | |
|----------------|--|--|
| Finland | OEL chemical category (FI) | Potential for cutaneous absorption |
| France | VLE [mg/m ³] | 0,2 mg/m ³ |
| France | VME [mg/m ³] | 0,1 mg/m ³ |
| Greece | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Greece | OEL STEL (mg/m ³) | 0,2 mg/m ³ |
| Greece | OEL chemical category (GR) | skin - potential for cutaneous absorption |
| Hungary | AK-érték | 0,05 mg/m ³ 0,002 mg/m ³ |
| Hungary | CK-érték | 0,4 mg/m ³ |
| Hungary | OEL chemical category (HU) | Potential for cutaneous absorption |
| Ireland | OEL (8 hours ref) (mg/m ³) | 0,1 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 0,2 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 0,1 mg/m ³ |
| Lithuania | TPRV (mg/m ³) | 0,2 mg/m ³ |
| Lithuania | OEL chemical category (LT) | Skin notation |
| Norway | Grenseverdier (AN) (mg/m ³) | 0,1 mg/m ³ |
| Norway | Grenseverdier (Korttidsverdi) (mg/m ³) | 0,3 mg/m ³ (value calculated) |
| Norway | OEL chemical category (NO) | Skin notation |
| Portugal | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Portugal | OEL STEL (mg/m ³) | 0,2 mg/m ³ |
| Portugal | OEL chemical category (PT) | A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure |
| Romania | OEL TWA (mg/m ³) | 0,05 mg/m ³ |
| Romania | OEL STEL (mg/m ³) | 0,15 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 0,1 mg/m ³ |
| Slovakia | NPHV (Hraničná) (mg/m ³) | 0,2 mg/m ³ |
| Slovakia | OEL chemical category (SK) | Potential for cutaneous absorption |
| Spain | VLA-ED (mg/m ³) | 0,1 mg/m ³ |
| Spain | VLA-EC (mg/m ³) | 0,2 mg/m ³ |
| Spain | OEL chemical category (ES) | skin - potential for cutaneous absorption |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0,1 mg/m ³ (total dust) |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 0,2 mg/m ³ (total dust) |
| Sweden | OEL chemical category (SE) | Skin notation |
| Switzerland | KZGW (mg/m ³) | 0,2 mg/m ³ (inhalable dust) |
| Switzerland | MAK (mg/m ³) | 0,1 mg/m ³ (inhalable dust) |
| Switzerland | OEL chemical category (CH) | Skin notation |
| United Kingdom | WEL TWA (mg/m ³) | 0,1 mg/m ³ (except Cyhexatin) |
| United Kingdom | WEL STEL (mg/m ³) | 0,2 mg/m ³ (except Cyhexatin) |
| United Kingdom | WEL chemical category | Potential for cutaneous absorption except Cyhexatin |

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8.2. Exposure Controls

Appropriate Engineering Controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. 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

Wear fire/flame resistant/retardant clothing. Chemically resistant materials and fabrics.

Hand Protection

Wear chemically resistant protective gloves. Wear protective gloves.

Eye Protection

Chemical safety goggles.

Skin and Body Protection

Wear suitable protective clothing. Wash contaminated clothing before reuse.

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.

Environmental Exposure Controls

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

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 |
| pH | No data available |
| Evaporation Rate | No data available |
| Melting Point | No data available |
| Freezing Point | No data available |
| Boiling Point | 88 – 100 °C (190 – 212 °F) |
| Flash Point | -8 °C (18 °F) |
| Auto-Ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Flammability (Solid, Gas) | Not applicable |

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| | |
|---------------------------------------|-------------------|
| Vapour Pressure | No data available |
| Relative Vapour Density At 20 °C | No data available |
| Relative Density | < 1 (water = 1) |
| Density | No data available |
| Solubility | No data available |
| Partition Coefficient n-Octanol/Water | No data available |
| Viscosity, Kinematic | No data available |
| Viscosity, Dynamic | No data available |
| Explosive Properties | No data available |
| Oxidising Properties | No data available |
| Explosive Limits | No data available |

9.2. Other Information

VOC content 60 – 80 %

SECTION 10: Stability and Reactivity

10.1. Reactivity

Highly flammable liquid and vapour. Reacts violently with strong oxidisers. Increased risk of fire or explosion.

10.2. Chemical Stability

Highly 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

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Silicon oxides. May release flammable gases.

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

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

| | |
|--|----------------------------|
| Silanetriol, ethyl-, triacetate (17689-77-9) | |
| LD50 Oral Rat | 1460 mg/kg |
| LD50 Oral | 1462 mg/kg |
| Glycidoxypropyltrimethoxysilane (2530-83-8) | |
| LD50 Oral Rat | 8025 mg/kg |
| LD50 Dermal Rabbit | 4250 mg/kg |
| LC50 Inhalation Rat | > 5,3 mg/l/4h |
| Dibutyltin diacetate (1067-33-0) | |
| LD50 Oral | 32 mg/kg |
| Skin Corrosion/Irritation | Causes skin irritation. |
| Eye Damage/Irritation | Causes serious eye damage. |

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| | |
|--|---|
| 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 (Single Exposure) | May cause drowsiness or dizziness. |
| Specific Target Organ Toxicity (Repeated Exposure) | Not classified (Based on available data, the 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.

| | |
|--|---|
| Glycidoxypopyltrimethoxysilane (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) |
| Dibutyltin diacetate (1067-33-0) | |
| EC50 Daphnia 1 | 0,75 (0,65 – 0,86) mg/l Exposure time: 48-Hour (Species: Daphnia magna) |
| ErC50 (Algae) | 0,1 mg/l |
| EC50 Chronic | 0,035 mg/l Exposure time: 72 hour (Species: Skeletonema costatum) |
| NOEC (Acute) | 0,65 mg/l |
| NOEC Chronic Crustacea | 0,32 mg/l (48-Hour EC50 Daphnia magna) |

12.2. Persistence and Degradability

| | |
|-------------------------------|---|
| MED16-6606 | |
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative Potential

| | |
|---------------------------|------------------|
| MED16-6606 | |
| Bioaccumulative potential | Not established. |

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB assessment

| | |
|--|--|
| MED16-6606 | |
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

12.6. Other Adverse Effects

Other Information Avoid release to the environment.

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SECTION 13: Disposal Considerations






13.1. Waste Treatment Methods

| | |
|--|---|
| Product/Packaging Disposal Recommendations | Dispose of waste material in accordance with all local, regional, national, and international regulations. Dispose of contents/container in accordance with local, 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 Shipping Name | | | | |
| HEPTANES SOLUTION | HEPTANES SOLUTION | HEPTANES SOLUTION | SOLUTION | SOLUTION |
| 14.3. Transport Hazard Class(Es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
|  |  |  |  |  |
| 14.4. Packing Group | | | | |
| II | II | II | Not applicable | Not applicable |
| 14.5. Environmental Hazards | | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |

14.6. Special Precautions For User

No additional information available

14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code

Not applicable

SECTION 15: Regulatory Information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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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 | 14/01/2021 |
| 2 | Hazards identification | Modified | 14/01/2021 |
| 3 | Composition/information on ingredients | Modified | 14/01/2021 |
| 8 | Exposure controls | Modified | 14/01/2021 |
| 9 | Physical and chemical properties | Modified | 14/01/2021 |

Date of Preparation or Latest Revision 14/01/2021

Revision

Data Sources

Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other Information

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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 |
| Muta. 2 | Germ cell mutagenicity, Category 2 |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| STOT SE 1 | Specific target organ toxicity — single exposure, Category 1 |
| 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. |

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|--------|---|
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H360 | May damage fertility or the unborn child. |
| H370 | Causes damage to organs. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH014 | Reacts violently with water. |

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists
ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD – Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008
COD – Chemical Oxygen Demand
EC – European Community
EC50 - Median Effective Concentration
EEC – European Economic Community
EINECS – European Inventory of Existing Commercial Chemical Substances
EmS-No. (Fire) - IMDG Emergency Schedule Fire
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
EU – European Union
ErC50 - EC50 in Terms of Reduction Growth Rate
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC Code - International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
IPRV - Ilgalaikio Poveikio Ribinis Dydis
IOELV – Indicative Occupational Exposure Limit Value
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-Observed-Effect Concentration
Log Koc - Soil Organic Carbon-water Partitioning Coefficient
Log Kow - Octanol/water Partition Coefficient
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MAK – Maximum Workplace Concentration/Maximum Permissible Concentration
MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyższe Dopuszczalne Stezenie
NDSCh - Najwyższe Dopuszczalne Stezenie Chwilowe
NDSP - Najwyższe Dopuszczalne Stezenie Pulapowe
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NRD - Nevirsytinas Ribinis Dydis
NTP – National Toxicology Program
OEL - Occupational Exposure Limits
PBT - Persistent, Bioaccumulative and Toxic
PEL - Permissible Exposure Limit
pH – Potential Hydrogen
REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals
RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail
SADT - Self Accelerating Decomposition Temperature
SDS - Safety Data Sheet
STEL - Short Term Exposure Limit
STOT - Specific Target Organ Toxicity
TA-Luft - Technische Anleitung zur Reinhaltung der Luft
TEL TRK – Technical Guidance Concentrations
ThOD – Theoretical Oxygen Demand
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPRD - Trumpalaikio Poveikio Ribinis Dydis
TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern
TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte
TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
VOC – Volatile Organic Compounds
VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
VLA-ED - Valor Límite Ambiental Exposición Diaria
VLE – Valeur Limite D'exposition
VME – Valeur Limite De Moyenne Exposition
vPvB - Very Persistent and Very Bioaccumulative
WEL – Workplace Exposure Limit
WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

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