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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
Trade name : Derbiseal S  
UFI : U410-Q0H3-S00T-E3GA  
Product group : Trade product

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Industrial uses  
Use of the substance/mixture : Further information: see technical data sheet. TDS Derbiseal S

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Imperbel N.V./S.A  
Guido Gezellestraat 123  
1654 Beersel (Huizingen), Belgium  
Tel.+32 2 334 87 00  
Fax:+32 2 378 14 69  
info@derbigum.com  
www.derbigum.be

### 1.4. Emergency telephone number

Emergency number : + 32 3 575 55 55 (24h/24h)

| Country | Official advisory body                                   | Address                                  | Emergency number   |
|---------|--|--|--|
| Ireland | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |


## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226  
STOT SE 3 H336  
Aquatic Chronic 3 H412

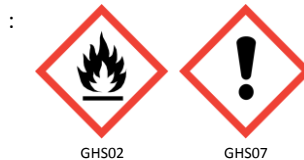
Full text of H- and EUH-statements: see section 16

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## 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word

: Warning

Contains

: Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2%; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.  
H336 - May cause drowsiness or dizziness.  
H412 - Harmful 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.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, face protection, protective gloves, protective clothing.  
P314 - Get medical advice/attention if you feel unwell.  
P403+P235 - Store in a well-ventilated place. Keep cool.

Extra phrases

: EUH066 - Repeated exposure may cause skin dryness or cracking.

## 2.3. Other hazards

Other hazards

: Vapours can form explosive mixtures with air.

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

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %


## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Substance name  | Product identifier  | %      | Classification according to Regulation (EC) No. 1272/2008 [CLP]                       |
|---|---|--------|---|
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% | (CAS-No.) -<br>(EC-No.) 927-241-2<br>(EC Index) -<br>(REACH-no) 01-2119471843-32-xxxx | 5 – 10 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics       | (CAS-No.) -<br>(EC-No.) 920-750-0<br>(EC Index) -<br>(REACH-no) 01-2119473851-33-xxxx | 5 – 10 | Flam. Liq. 2, H225<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

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|   |   |         |  |
|---|---|---------|--|
| Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) | (CAS-No.) 34140-91-5<br>(EC-No.) 251-846-4<br>(REACH-no) 01-2119974119-29-xxxx                          | 0,1 – 1 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT RE 2, H373<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 2, H411        |
| vinyl acetate<br>substance with a Community workplace exposure limit    | (CAS-No.) 108-05-4<br>(EC-No.) 203-545-4<br>(EC Index) 607-023-00-0<br>(REACH-no) 01-2119471301-50-xxxx | < 0,1   | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation:vapour),<br>H332<br>Carc. 2, H351<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                   |  |
|-------------------|--|
| Additional advice | : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. |
| Inhalation        | : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.   |
| Skin contact      | : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.  |
| Eyes contact      | : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.  |
| Ingestion         | : Rinse mouth thoroughly with water. Get medical advice/attention.   |

### 4.2. Most important symptoms and effects, both acute and delayed

|              |  |
|--------------|--|
| Inhalation   | : May cause drowsiness or dizziness. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. |
| Skin contact | : Repeated exposure may cause skin dryness or cracking.  |
| Eyes contact | : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.   |
| Ingestion    | : May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.   |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media


|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : carbon dioxide (CO2), powder, alcohol-resistant foam, water spray. |
| Unsuitable extinguishing media | : Strong water jet.  |

### 5.2. Special hazards arising from the substance or mixture

|  |   |
|--|---|
| Specific hazards                                 | : Flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting.   |
| Explosion hazard                                 | : Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Vapours may form explosive mixture with air. |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO2).  |

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.  |

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Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### **6.1.1. For non-emergency personnel**

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

#### **6.1.2. For emergency responders**

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.


Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Incompatible substances or mixtures : Strong oxidizing agents.

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition. Keep out of direct sunlight.

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Packaging materials

: Do not pierce or burn, even after use. Do not burn, or use a cutting torch on the empty drum. Never use pressure to empty container. Keep only in the original container.


**7.3. Specific end use(s)**

No data available.


**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**


| vinyl acetate (108-05-4) |                       |                        |
|--------------------------|-----------------------|------------------------|
| EU                       | IOEL TWA              | 17,6 mg/m <sup>3</sup> |
| EU                       | IOEL TWA [ppm]        | 5 ppm                  |
| EU                       | IOEL STEL             | 35,2 mg/m <sup>3</sup> |
| EU                       | IOEL STEL [ppm]       | 10 ppm                 |
| Austria                  | TRK (OEL TWA)         | 17,6 mg/m <sup>3</sup> |
| Austria                  | TRK (OEL TWA) [ppm]   | 5 ppm                  |
| Belgium                  | OEL TWA               | 17,6 mg/m <sup>3</sup> |
| Belgium                  | OEL TWA [ppm]         | 5 ppm                  |
| Belgium                  | OEL STEL              | 35,2 mg/m <sup>3</sup> |
| Belgium                  | OEL STEL [ppm]        | 10 ppm                 |
| Bulgaria                 | OEL TWA               | 17,6 mg/m <sup>3</sup> |
| Bulgaria                 | OEL TWA [ppm]         | 5 ppm                  |
| Bulgaria                 | OEL STEL              | 35,2 mg/m <sup>3</sup> |
| Bulgaria                 | OEL STEL [ppm]        | 10 ppm                 |
| Croatia                  | GVI (OEL TWA) [1]     | 17,6 mg/m <sup>3</sup> |
| Croatia                  | GVI (OEL TWA) [2]     | 5 ppm                  |
| Croatia                  | KGVI (OEL STEL)       | 35,2 mg/m <sup>3</sup> |
| Croatia                  | KGVI (OEL STEL) [ppm] | 10 ppm                 |
| Cyprus                   | OEL TWA               | 17,6 mg/m <sup>3</sup> |
| Cyprus                   | OEL TWA [ppm]         | 5 ppm                  |
| Cyprus                   | OEL STEL              | 35,2 mg/m <sup>3</sup> |
| Cyprus                   | OEL STEL [ppm]        | 10 ppm                 |
| Czech Republic           | PEL (OEL TWA)         | 18 mg/m <sup>3</sup>   |
| Denmark                  | OEL TWA [1]           | 18 mg/m <sup>3</sup>   |
| Denmark                  | OEL TWA [2]           | 5 ppm                  |
| Denmark                  | OEL STEL              | 35,2 mg/m <sup>3</sup> |
| Denmark                  | OEL STEL [ppm]        | 10 ppm                 |
| Estonia                  | OEL TWA               | 18 mg/m <sup>3</sup>   |
| Estonia                  | OEL TWA [ppm]         | 5 ppm                  |
| Estonia                  | OEL STEL              | 35,2 mg/m <sup>3</sup> |
| Estonia                  | OEL STEL [ppm]        | 10 ppm                 |
| Finland                  | HTP (OEL TWA) [1]     | 18 mg/m <sup>3</sup>   |
| Finland                  | HTP (OEL TWA) [2]     | 5 ppm                  |
| Finland                  | HTP (OEL STEL)        | 35 mg/m <sup>3</sup>   |
| Finland                  | HTP (OEL STEL) [ppm]  | 10 ppm                 |
| France                   | VME (OEL TWA)         | 17,6 mg/m <sup>3</sup> |

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| <b>vinyl acetate (108-05-4)</b> |  |  |
|---------------------------------|--|--|
| France                          | VME (OEL TWA) [ppm]  | 5 ppm                                      |
| France                          | VLE (OEL C/STEL)   | 35,2 mg/m <sup>3</sup> (restrictive limit) |
| France                          | VLE (OEL C/STEL) [ppm]   | 10 ppm (restrictive limit)                 |
| Germany                         | Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900) | 18 mg/m <sup>3</sup>                       |
| Germany                         | Occupational exposure limit value (ppm) (TRGS900)                | 5 ppm                                      |
| Gibraltar                       | OEL TWA  | 17,6 mg/m <sup>3</sup>                     |
| Gibraltar                       | OEL TWA [ppm]  | 5 ppm                                      |
| Gibraltar                       | OEL STEL   | 35,2 mg/m <sup>3</sup>                     |
| Gibraltar                       | OEL STEL [ppm]   | 10 ppm                                     |
| Greece                          | OEL TWA  | 17,6 mg/m <sup>3</sup>                     |
| Greece                          | OEL TWA [ppm]  | 5 ppm                                      |
| Greece                          | OEL STEL   | 35,2 mg/m <sup>3</sup>                     |
| Greece                          | OEL STEL [ppm]   | 10 ppm                                     |
| Hungary                         | AK (OEL TWA)   | 17,6 mg/m <sup>3</sup>                     |
| Hungary                         | CK (OEL STEL)  | 35,2 mg/m <sup>3</sup>                     |
| Ireland                         | OEL TWA [1]  | 18 mg/m <sup>3</sup>                       |
| Ireland                         | OEL TWA [2]  | 5 ppm                                      |
| Ireland                         | OEL STEL   | 35 mg/m <sup>3</sup>                       |
| Ireland                         | OEL STEL [ppm]   | 10 ppm                                     |
| Italy                           | OEL TWA  | 17,6 mg/m <sup>3</sup>                     |
| Italy                           | OEL TWA [ppm]  | 5 ppm                                      |
| Italy                           | OEL STEL   | 35,2 mg/m <sup>3</sup>                     |
| Italy                           | OEL STEL [ppm]   | 10 ppm                                     |
| Latvia                          | OEL TWA  | 17,6 mg/m <sup>3</sup>                     |
| Latvia                          | OEL TWA [ppm]  | 5 ppm                                      |
| Lithuania                       | IPRV (OEL TWA)   | 17,6 mg/m <sup>3</sup>                     |
| Lithuania                       | IPRV (OEL TWA) [ppm]   | 5 ppm                                      |
| Lithuania                       | TPRV (OEL STEL)  | 35,2 mg/m <sup>3</sup>                     |
| Lithuania                       | TPRV (OEL STEL) [ppm]  | 10 ppm                                     |
| Luxembourg                      | OEL TWA  | 17,6 mg/m <sup>3</sup>                     |
| Luxembourg                      | OEL TWA [ppm]  | 5 ppm                                      |
| Luxembourg                      | OEL STEL   | 35,2 mg/m <sup>3</sup>                     |
| Luxembourg                      | OEL STEL [ppm]   | 10 ppm                                     |
| Malta                           | OEL TWA  | 17,6 mg/m <sup>3</sup>                     |
| Malta                           | OEL TWA [ppm]  | 5 ppm                                      |
| Malta                           | OEL STEL   | 35,2 mg/m <sup>3</sup>                     |
| Malta                           | OEL STEL [ppm]   | 10 ppm                                     |
| Netherlands                     | TGG-8u (OEL TWA)   | 18 mg/m <sup>3</sup>                       |
| Netherlands                     | TGG-8u (OEL TWA) [ppm]   | 5,1 ppm                                    |
| Netherlands                     | TGG-15min (OEL STEL)   | 36 mg/m <sup>3</sup>                       |
| Netherlands                     | TGG-15min (OEL STEL) [ppm]                                       | 10,2 ppm                                   |

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| <b>vinyl acetate (108-05-4)</b> |                                |  |
|---------------------------------|--------------------------------|--|
| Poland                          | NDS (OEL TWA)                  | 10 mg/m <sup>3</sup>                               |
| Poland                          | NDSch (OEL STEL)               | 30 mg/m <sup>3</sup>                               |
| Portugal                        | OEL TWA                        | 17,6 mg/m <sup>3</sup> (indicative limit value)    |
| Portugal                        | OEL TWA [ppm]                  | 5 ppm (indicative limit value)                     |
| Portugal                        | OEL STEL                       | 35,2 mg/m <sup>3</sup> (indicative limit value)    |
| Portugal                        | OEL STEL [ppm]                 | 10 ppm (indicative limit value)                    |
| Romania                         | OEL TWA                        | 17,6 mg/m <sup>3</sup>                             |
| Romania                         | OEL TWA [ppm]                  | 5 ppm  |
| Romania                         | OEL STEL                       | 35,2 mg/m <sup>3</sup>                             |
| Romania                         | OEL STEL [ppm]                 | 10 ppm   |
| Slovakia                        | NPHV (OEL TWA) [1]             | 36 mg/m <sup>3</sup>                               |
| Slovakia                        | NPHV (OEL TWA) [2]             | 10 ppm   |
| Slovakia                        | NPHV (OEL C)                   | 35,2 mg/m <sup>3</sup>                             |
| Slovenia                        | OEL TWA                        | 17,6 mg/m <sup>3</sup>                             |
| Slovenia                        | OEL TWA [ppm]                  | 5 ppm  |
| Slovenia                        | OEL STEL                       | 35,2 mg/m <sup>3</sup>                             |
| Slovenia                        | OEL STEL [ppm]                 | 10 ppm   |
| Spain                           | VLA-ED (OEL TWA) [1]           | 17,6 mg/m <sup>3</sup> (indicative limit value)    |
| Spain                           | VLA-ED (OEL TWA) [2]           | 5 ppm (indicative limit value)                     |
| Spain                           | VLA-EC (OEL STEL)              | 35,2 mg/m <sup>3</sup>                             |
| Spain                           | VLA-EC (OEL STEL) [ppm]        | 10 ppm   |
| Sweden                          | NGV (OEL TWA)                  | 18 mg/m <sup>3</sup>                               |
| Sweden                          | NGV (OEL TWA) [ppm]            | 5 ppm  |
| Sweden                          | KTV (OEL STEL)                 | 35 mg/m <sup>3</sup>                               |
| Sweden                          | KTV (OEL STEL) [ppm]           | 10 ppm   |
| United Kingdom                  | WEL TWA (OEL TWA) [1]          | 17,6 mg/m <sup>3</sup>                             |
| United Kingdom                  | WEL TWA (OEL TWA) [2]          | 5 ppm  |
| United Kingdom                  | WEL STEL (OEL STEL)            | 35,2 mg/m <sup>3</sup>                             |
| United Kingdom                  | WEL STEL (OEL STEL) [ppm]      | 10 ppm   |
| Norway                          | Grenseverdi (OEL TWA) [1]      | 17,6 mg/m <sup>3</sup>                             |
| Norway                          | Grenseverdi (OEL TWA) [2]      | 5 ppm  |
| Norway                          | Korttidsverdi (OEL STEL)       | 35,2 mg/m <sup>3</sup> (value from the regulation) |
| Norway                          | Korttidsverdi (OEL STEL) [ppm] | 10 ppm (value from the regulation)                 |
| Switzerland                     | MAK (OEL TWA) [1]              | 35 mg/m <sup>3</sup>                               |
| Switzerland                     | MAK (OEL TWA) [2]              | 10 ppm   |
| Switzerland                     | KZGW (OEL STEL)                | 35 mg/m <sup>3</sup>                               |
| Switzerland                     | KZGW (OEL STEL) [ppm]          | 10 ppm   |
| Australia                       | OES TWA [1]                    | 35 mg/m <sup>3</sup>                               |
| Australia                       | OES TWA [2]                    | 10 ppm   |
| Australia                       | OES STEL                       | 70 mg/m <sup>3</sup>                               |
| Australia                       | OES STEL [ppm]                 | 20 ppm   |
| Canada (Quebec)                 | VECD (OEL STEL)                | 53 mg/m <sup>3</sup>                               |
| Canada (Quebec)                 | VECD (OEL STEL) [ppm]          | 15 ppm   |

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| vinyl acetate (108-05-4) |                      |                      |
|--------------------------|----------------------|----------------------|
| Canada (Quebec)          | VEMP (OEL TWA)       | 35 mg/m <sup>3</sup> |
| Canada (Quebec)          | VEMP (OEL TWA) [ppm] | 10 ppm               |
| USA - ACGIH              | ACGIH OEL TWA [ppm]  | 10 ppm               |
| USA - ACGIH              | ACGIH OEL STEL [ppm] | 15 ppm               |
| USA - NIOSH              | NIOSH REL C          | 15 mg/m <sup>3</sup> |
| USA - NIOSH              | NIOSH REL C [ppm]    | 4 ppm                |

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

### **8.2. Exposure controls**

Engineering measure(s) : Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharges. Organisational measures to prevent/limit releases, dispersion and exposure. Reference to other sections 7.

Personal protective equipment : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hand protection : In case of repeated or prolonged contact wear gloves. Protective gloves complying with EN 374. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection : Wear eye protection. Safety glasses

Body protection : Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136) (EN136). Half-face mask (DIN EN 140) (EN140). Filter type: A (EN141).



Thermal hazard protection : Not required for normal conditions of use.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Physical state : Liquid

Appearance : viscous liquid. Liquid.

Colour : Black.

Odour : Hydrocarbon-like.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available


Melting / freezing point : No data available

Freezing point : No data available

Initial boiling point and boiling range : 108 °C

Flash point : 23 °C



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|                                       |   |
|---------------------------------------|---|
| Auto-ignition temperature             | : > 300 °C  |
| Decomposition temperature             | : No data available   |
| Flammability                          | : Not applicable, liquid  |
| Vapour pressure                       | : 40 hPa (20°C)   |
| Vapour density                        | : No data available   |
| Relative density                      | : 1,1   |
| Solubility                            | : Water: Insoluble  |
| Partition coefficient n-octanol/water | : No data available   |
| Kinematic viscosity                   | : No data available   |
| Dynamic viscosity                     | : No data available   |
| Explosive properties                  | : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.                        |
| Oxidising properties                  | : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties. |
| Explosive limits                      | : No data available   |
| Particle size                         | : Not applicable  |
| Particle size distribution            | : Not applicable  |
| Particle shape                        | : Not applicable  |
| Particle aspect ratio                 | : Not applicable  |
| Particle aggregation state            | : Not applicable  |
| Particle agglomeration state          | : Not applicable  |
| Particle specific surface area        | : Not applicable  |
| Particle dustiness                    | : Not applicable  |

## **9.2. Other information**

### **9.2.1. Information with regard to physical hazard classes**

No additional information available

### **9.2.2. Other safety characteristics**

No additional information available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Flammable liquid and vapour. Reference to other sections: 10.4 & 10.5.

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**


Vapours may form explosive mixture with air. No dangerous reactions known under normal conditions of use.

### **10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

### **10.5. Incompatible materials**

oxidising substances. See Section 7 for information on safe handling.

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#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Reference to other sections 5.2.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% (-)                        |                         |
|--|-------------------------|
| LD50/oral/rat  | > 5000 mg/kg            |
| LD50/dermal/rabbit   | > 5000 mg/kg            |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (-)                              |                         |
| LD50/oral/rat  | > 5840 mg/kg            |
| LD50/dermal/rabbit   | > 2000 mg/kg            |
| vinyl acetate (108-05-4)   |                         |
| LD50/oral/rat  | 3470 mg/kg              |
| LD50/dermal/rabbit   | 7440 mg/kg              |
| LC50/inhalation/4h/rat   | 14084 mg/m <sup>3</sup> |
| LC50/inhalation/4h/rat (ppm)   | 3680 ppm/4h             |
| Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5) |                         |
| LD50/dermal/rat  | > 2000 mg/kg            |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: No data available

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: No data available

Respiratory or skin sensitisation : 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)

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)


| Derbiseal S         |                   |
|---------------------|-------------------|
| Kinematic viscosity | No data available |

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

#### 11.2. Information on other hazards

##### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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### 11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Harmful to aquatic life with long lasting effects. According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% (-) |                   |
|---|-------------------|
| LC50 - Fish [1]   | 10 – 100 mg/l     |
| NOEC (acute)  | 0,1 – 1 mg/l fish |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (-) |                   |
|---|-------------------|
| LC50 - Fish [1]   | 1 – 10 mg/l       |
| NOEC (acute)  | 0,1 – 1 mg/l Fish |

| vinyl acetate (108-05-4)             |  |
|--------------------------------------|--|
| LC50 - Fish [1]                      | (96h) 1036 mg/l QSAR   |
| LC50 - Fish [2]                      | 15,04 – 21,54 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| EC50 - Crustacea [1]                 | (48h)(OECD 202) 12,6 mg/l Daphnia magna (Big water flea)                                     |
| EC50 72h - Algae [1]                 | 12,7 mg/l  |
| ErC50 algae                          | 12,7 mg/l Pseudokirchnerella subcapitata; OECD 201 (Alga, Growth Inhibition Test)            |
| NOEC chronic fish                    | 0,16 mg/l (OECD 210, Fish, Early-life stage toxicity test)                                   |
| EC50, Daphnia magna (Big water flea) | 24 mg/l (24 hours, OECD 202)   |


| Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5) |  |
|--|--|
| LC50 - Fish [1]  | 1,35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |

### 12.2. Persistence and degradability

| Derbiseal S                   |                                      |
|-------------------------------|--------------------------------------|
| Persistence and degradability | No additional information available. |

### 12.3. Bioaccumulative potential

| Derbiseal S                           |                                      |
|---------------------------------------|--------------------------------------|
| Partition coefficient n-octanol/water | No data available                    |
| Bioaccumulative potential             | No additional information available. |

|   |                          |  |                         |
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|                                       |      |
|---------------------------------------|------|
| <b>vinyl acetate (108-05-4)</b>       |      |
| Partition coefficient n-octanol/water | 0,73 |

#### 12.4. Mobility in soil

|                    |                   |
|--------------------|-------------------|
| <b>Derbiseal S</b> |                   |
| Mobility in soil   | No data available |

#### 12.5. Results of PBT and vPvB assessment

|  |                   |
|--|-------------------|
| <b>Derbiseal S</b>   |                   |
| 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 |                   |
| Results of PBT assessment  | No data available |

#### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### 12.7. Other adverse effects

Other adverse effects : No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.


Further ecological information : Do not allow to enter into surface water or drains.






European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

### SECTION 14: Transport information

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

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
| <b>14.1. UN number or ID number</b>   |   |   |   |   |
| 1993  | 1993  | 1993  | 1993  | 1993  |
| <b>14.2. UN proper shipping name</b>  |   |   |   |   |
| FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, | FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, | Flammable liquid, n.o.s. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, | FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, | FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, |

|   |                          |  |                         |
|---|--------------------------|--|-------------------------|
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| ADR  | IMDG  | IATA  | ADN   | RID   |
|--|---|---|---|---|
| cyclics)   | cyclics)  | cyclics)  | cyclics)  | cyclics)  |
| <b>Transport document description</b>  |   |   |   |   |
| UN 1993 FLAMMABLE LIQUID, N.O.S.<br>(Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics), 3, III, (D/E) | UN 1993 FLAMMABLE LIQUID, N.O.S.<br>(Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics), 3, III | UN 1993 Flammable liquid, n.o.s.<br>(Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics), 3, III | UN 1993 FLAMMABLE LIQUID, N.O.S.<br>(Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics), 3, III | UN 1993 FLAMMABLE LIQUID, N.O.S.<br>(Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics), 3, III |
| <b>14.3. Transport hazard class(es)</b>  |   |   |   |   |
| 3  | 3   | 3   | 3   | 3   |
|    |    |    |   |    |
| <b>14.4. Packing group</b>   |   |   |   |   |
| III  | III   | III   | III   | III   |
| <b>14.5. Environmental hazards</b>   |   |   |   |   |
| Dangerous for the environment : No   | Dangerous for the environment : No<br>Marine pollutant : No   | Dangerous for the environment : No  | Dangerous for the environment : No  | Dangerous for the environment : No  |
| No supplementary information available   |   |   |   |   |

#### 14.6. Special precautions for user

Special precautions for user : No data available

#### - Overland transport

Classification code (ADR) : F1  
Special provisions : 274, 601  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1, TP29  
Tank code (ADR) : LGBF  
Vehicle for tank carriage : FL  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Operation (ADR) : S2  
Hazard identification number (Kemler No.) : 30

|   |                          |                         |
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Orange plates : 30  
1993

Tunnel restriction code : D/E  
EAC code : •3Y

**- Transport by sea**

Special provisions (IMDG) : 223, 274, 955  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP01, P001  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP29  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : A

**- Air transport**


PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y344  
PCA limited quantity max net quantity (IATA) : 10L  
PCA packing instructions (IATA) : 355  
PCA max net quantity (IATA) : 60L  
CAO packing instructions (IATA) : 366  
CAO max net quantity (IATA) : 220L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3L

**- Inland waterway transport**

Classification code (ADN) : F1  
Special provisions (ADN) : 274, 601  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 0

**- Rail transport**

Classification code (RID) : F1  
Special provisions (RID) : 274, 601  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4

|   |                          |                         |
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Portable tank and bulk container special provisions (RID) : TP1, TP29  
 Tank codes for RID tanks (RID) : LGBF  
 Transport category (RID) : 3  
 Special provisions for carriage – Packages (RID) : W12  
 Colis express (express parcels) (RID) : CE4  
 Hazard identification number (RID) : 30

**14.7. Maritime transport in bulk according to IMO instruments**

Code: IBC : No data available.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

|  |   |
|--|---|
| 3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F  | Derbiseal S ; Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; vinyl acetate |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10   | Derbiseal S ; Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; vinyl acetate |
| 3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   | Derbiseal S ; Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; vinyl acetate |
| 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; vinyl acetate               |


Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**15.1.2. National regulations**

**France**

| No ICPE   | Installations classées<br>Désignation de la rubrique   | Code Régime | Rayon |
|-----------|--|-------------|-------|
| 4330.text | Liquides inflammables de catégorie 1, liquides inflammables maintenus à une température supérieure à leur point d'ébullition, autres liquides de point éclair inférieur ou égal à 60° C maintenus à une température supérieure à leur température d'ébullition ou dans des conditions particulières de traitement, telles qu'une pression ou une température élevée (1). |             |       |

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|-----------|---|----|---|
| 4330.1    | <p>La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :</p> <p>1. Supérieure ou égale à 10 t</p> <p>(1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie.</p> <p>Quantité seuil bas au sens de l'article R. 511-10 : 10 t.</p> <p>Quantité seuil haut au sens de l'article R. 511-10 : 50 t.</p>                       | A  | 2 |
| 4330.2    | <p>La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :</p> <p>2. Supérieure ou égale à 1 t mais inférieure à 10 t</p> <p>(1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie.</p> <p>Quantité seuil bas au sens de l'article R. 511-10 : 10 t.</p> <p>Quantité seuil haut au sens de l'article R. 511-10 : 50 t.</p> | DC |   |
| 4331.text | <p>Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330.</p> <p>La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :</p>  |    |   |
| 4331.1    | <p>1. Supérieure ou égale à 1000 t</p> <p>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.</p> <p>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.</p>  | A  | 2 |
| 4331.2    | <p>2. Supérieure ou égale à 100 t mais inférieure à 1000 t</p> <p>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.</p> <p>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.</p>  | E  |   |
| 4331.3    | <p>3. Supérieure ou égale à 50 t mais inférieure à 100 t</p> <p>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.</p> <p>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.</p>  | DC |   |


#### Germany

|  |   |
|--|---|
| Regulatory reference                       | : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)   |
| Employment restrictions                    | : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)<br>Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG) |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)  |

#### Netherlands

|  |   |
|--|---|
| Waterbezwaarlijkheid                                 | : A (3) Harmful to aquatic life with long lasting effects.                        |
| Saneringsinspanningen                                | : A - In principe niet lozen; zo ja, dan toepassen van beste bestaande technieken |
| SZW-lijst van kankerverwekkende stoffen              | : None of the components are listed   |
| SZW-lijst van mutagene stoffen                       | : None of the components are listed   |
| SZW-lijst van reprotoxische stoffen – Borstvoeding   | : None of the components are listed   |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : None of the components are listed   |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling   | : None of the components are listed   |



|   |                          |                         |
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#### Denmark

|                                   |   |
|-----------------------------------|---|
| Class for fire hazard             | : Class II-1  |
| Store unit                        | : 5 liter   |
| Classification remarks            | : R10 <H226;H336;H412>; Emergency management guidelines for the storage of flammable liquids must be followed   |
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product<br>Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

#### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

|   |
|---|
| <b>For the following substances of this mixture a chemical safety assessment has been carried out</b> |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2%   |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics   |
| vinyl acetate   |
| Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)                               |


#### SECTION 16: Other information

Indication of changes:

|      |  |          |  |
|------|--|----------|--|
| 1    | SDS Version (obsolete)   | Modified |  |
| 2.2  | Contains   | Modified |  |
| 2.3  | PBT  | Modified |  |
| 2.3  | PBT  | Modified |  |
| 2.3  | ED   | Modified |  |
| 4.2  | Ingestion  | Modified |  |
| 4.2  | Chronic symptoms   | Modified |  |
| 4.3  | Indication of any immediate medical attention and special treatment needed   | Modified |  |
| 9.2  | Information with regard to physical hazard classes                           | Modified |  |
| 10.4 | Conditions to avoid  | Modified |  |
| 10.5 | Incompatible materials   | Modified |  |
| 11   | Adverse health effects caused by endocrine disrupting properties             | Modified |  |
| 12.6 | Adverse effects on the environment caused by endocrine disrupting properties | Modified |  |
| 14.7 | Maritime transport in bulk according to IMO instruments                      | Added    |  |
| 15.1 | Installations classées   | Added    |  |
| 15.1 | Water hazard class (WGK)   | Modified |  |
| 15.1 | Waterbezwaarlijkheid   | Modified |  |
|      | Other safety characteristics   | Modified |  |

Abbreviations and acronyms:

|                                      |
|--------------------------------------|
| ABM = Algemene beoordelingsmethodiek |
|--------------------------------------|

|   |                          |                         |
|---|--------------------------|-------------------------|
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|  |
|--|
| ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin |
| ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route                      |
| CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC                                   |
| IATA = International Air Transport Association   |
| IMDG = International Maritime Dangerous Goods Code   |
| LEL = Lower Explosive Limit/Lower Explosion Limit  |
| UEL = Upper Explosion Limit/Upper Explosive Limit  |
| REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals   |
| BTT = Breakthrough time (maximum wearing time)   |
| DMEL = Derived Minimal Effect level  |
| DNEL = Derived No Effect Level   |
| EC50 = Median Effective Concentration  |
| EL50 = Median effective level  |
| ErC50 = EC50 in terms of reduction of growth rate  |
| ErL50 = EL50 in terms of reduction of growth rate  |
| EWC = European waste catalogue   |
| LC50 = Median lethal concentration   |
| LD50 = Median lethal dose  |
| LL50 = Median lethal level   |
| NA = Not applicable  |
| NOEC = No observed effect concentration  |
| NOEL: no-observed-effect level   |
| NOELR = No observed effect loading rate  |
| NOAEC = No observed adverse effect concentration   |
| NOAEL = No observed adverse effect level   |
| N.O.S. = Not Otherwise Specified   |
| OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)  |
| PNEC = Predicted No Effect Concentration   |
| Quantitative structure-activity relationship (QSAR)  |
| STOT = Specific Target Organ Toxicity  |
| TWA = time weighted average  |
| VOC = Volatile organic compounds   |
| WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)                         |


Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). Information Supplier. European Chemicals Agency LOLI.

Training advice : Training staff on good practice.

Other information : Assessment/classification CLP. Article 9. Calculation method. Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

|                                  |   |
|----------------------------------|---|
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4                     |
| Aquatic Acute 1                  | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 2                | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3                | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1                      | Aspiration hazard, Category 1                                     |
| Carc. 2                          | Carcinogenicity, Category 2                                       |
| EUH066                           | Repeated exposure may cause skin dryness or cracking.             |
| Eye Irrit. 2                     | Serious eye damage/eye irritation, Category 2                     |
| Flam. Liq. 2                     | Flammable liquids, Category 2                                     |
| Flam. Liq. 3                     | Flammable liquids, Category 3                                     |

|   |                          |                         |
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|               |  |
|---------------|--|
| H225          | Highly flammable liquid and vapour.                                    |
| H226          | Flammable liquid and vapour.   |
| H304          | May be fatal if swallowed and enters airways.                          |
| H315          | Causes skin irritation.  |
| H319          | Causes serious eye irritation.   |
| H332          | Harmful if inhaled.  |
| H335          | May cause respiratory irritation.                                      |
| H336          | May cause drowsiness or dizziness.                                     |
| H351          | Suspected of causing cancer.   |
| H373          | May cause damage to organs through prolonged or repeated exposure.     |
| H400          | Very toxic to aquatic life.  |
| H411          | Toxic to aquatic life with long lasting effects.                       |
| H412          | Harmful to aquatic life with long lasting effects.                     |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2                                  |
| STOT RE 2     | Specific target organ toxicity – Repeated exposure, Category 2         |
| STOT SE 3     | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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