

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Nelfadur Lakverf 2DN (Base)  
Product code : F.0754.A  
Product group : Recipe

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

##### Relevant identified uses

Main use category : Professional use, Industrial use  
Industrial/Professional use spec : Wide dispersive use  
Use of the substance/mixture : Two pack satin PU Coating  
Function or use category : Coatings and paints, thinners, paint removers

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

##### Manufacturer

Nelf Marine Paints B.V.  
Nieuweweg 5  
NL 9073 GN Marrum, Fryslân  
Nederland  
T +31 (0)518 - 418 000  
[info@nelfmarine.nl](mailto:info@nelfmarine.nl), [www.nelfmarine.nl](http://www.nelfmarine.nl)

#### 1.4. Emergency telephone number

| Country/Area | Organisation/Company                               | Address                                                      | Emergency number | Comment                                                                                                             |
|--------------|----------------------------------------------------|--------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------|
| Netherlands  | Nationaal Vergiftigingen Informatie Centrum (NVIC) | Huispostnummer Q03.2.315<br>Postbus 85500<br>3508 GA Utrecht | +31 88 755 80 00 | Only for the purpose of informing medical personnel in cases of acute intoxications (24 hours a day, 7 days a week) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity – Single exposure, Category 3, H336  
Narcosis  
Specific target organ toxicity – Single exposure, Category 3, H335  
Respiratory tract irritation  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Hazardous to the aquatic environment – Chronic Hazard, H412  
Category 3

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

##### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



CLP Signal word

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

- : Warning
- : Reaction mass of ethylbenzene and m-xylene and p-xylene; 2-methoxy-1-methylethyl acetate; Hydrocarbons, C9, aromatics
- : H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.
- : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P261 - Avoid breathing vapours.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear eye protection, protective gloves.  
P312 - Call a doctor if you feel unwell.  
P314 - Get medical advice/attention if you feel unwell.

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

Contains no PBT and/or 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 substance(s) are 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

### 3.2. Mixtures

| Name                                                                                                                                                                                     | Product identifier                              | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>substance with national workplace exposure limit(s) (DE, FR, GB, NL, PL); substance with a Community workplace exposure limit | EC-No.: 905-562-9<br>REACH-no: 01-2119555267-33 | 10 – 25 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |

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| Name                                                                                                                                                                                                                                                                | Product identifier                                                                                 | %              | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------|
| Hydrocarbons, C9, aromatics<br>substance with national workplace exposure limit(s)<br>(NL)                                                                                                                                                                          | CAS-No.: 128601-23-0<br>EC-No.: 918-668-5<br>REACH-no: 01-2119455851-35                            | 10 – 25        | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066 |
| 2-methoxy-1-methylethyl acetate<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LU, LV, MT, NL, PL, RO, SE, SI, SK, IS, NO, RS, CH); substance with a Community workplace exposure limit | CAS-No.: 108-65-6<br>EC-No.: 203-603-9<br>EC Index-No.: 607-195-00-7<br>REACH-no: 01-2119475791-29 | 10 – 25        | Flam. Liq. 3, H226<br>STOT SE 3, H336                                                                              |
| Isotridecylalcohol, ethoxylated, phosphated,<br>compound with N,N-dimethylcyclohexanamine                                                                                                                                                                           | CAS-No.: 164383-18-0<br>EC-No.: 605-358-7                                                          | 1 – 2.5        | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411                                               |
| 2-methoxypropyl acetate<br>substance with national workplace exposure limit(s)<br>(CZ, DE, PL, SK)                                                                                                                                                                  | CAS-No.: 70657-70-4<br>EC-No.: 274-724-2<br>EC Index-No.: 607-251-00-0                             | 0.0015 – 0.01  | Flam. Liq. 3, H226<br>Repr. 1B, H360D<br>STOT SE 3, H335                                                           |
| 2-methylpropan-1-ol; iso-butanol<br>substance with national workplace exposure limit(s)<br>(CZ, DE, FR, GB, PL, RO, SK)                                                                                                                                             | CAS-No.: 78-83-1<br>EC-No.: 201-148-0<br>EC Index-No.: 603-108-00-1<br>REACH-no: 01-2119484609-23  | 0.001 – 0.0015 | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H336                |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Call a poison center or a doctor if you feel unwell.                                                                                                                           |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.                                                            |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.                                         |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                                                                                                                           |
| Self protection of the first-aid      | : First aid workers will be equipped with suitable personal protective equipment.                                                                                                |

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

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| Symptoms/effects                    | : May cause drowsiness or dizziness.                                |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.                                 |
| Symptoms/effects after skin contact | : Irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/effects after eye contact  | : Eye irritation.                                                   |
| Symptoms/effects after ingestion    | : None under normal conditions.                                     |

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Flammable liquid and vapour.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

##### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

##### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

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Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.  
Packaging materials : Always store product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| Reaction mass of ethylbenzene and m-xylene and p-xylene |                                    |
|---------------------------------------------------------|------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL)      |                                    |
| IOEL TWA                                                | 221 mg/m <sup>3</sup>              |
| IOEL STEL                                               | 442 mg/m <sup>3</sup>              |
| Netherlands - Occupational Exposure Limits              |                                    |
| TGG-8u (OEL TWA)                                        | 210 mg/m <sup>3</sup>              |
| TGG-15min (OEL STEL)                                    | 442 mg/m <sup>3</sup>              |
| 2-methoxy-1-methylethyl acetate (108-65-6)              |                                    |
| EU - Indicative Occupational Exposure Limit (IOEL)      |                                    |
| Local name                                              | 2-Methoxy-1-methylethylacetate     |
| IOEL TWA                                                | 275 mg/m <sup>3</sup>              |
|                                                         | 50 ppm                             |
| IOEL STEL                                               | 550 mg/m <sup>3</sup>              |
|                                                         | 100 ppm                            |
| Remark                                                  | Skin                               |
| Regulatory reference                                    | COMMISSION DIRECTIVE 2000/39/EC    |
| Netherlands - Occupational Exposure Limits              |                                    |
| Local name                                              | 1-Methoxy-2-propylacetaat          |
| TGG-8u (OEL TWA)                                        | 550 mg/m <sup>3</sup>              |
|                                                         | 100 ppm                            |
| Regulatory reference                                    | Arbeidsomstandighedenregeling 2024 |
| Hydrocarbons, C9, aromatics (128601-23-0)               |                                    |
| Netherlands - Occupational Exposure Limits              |                                    |
| TGG-8u (OEL TWA)                                        | 100 mg/m <sup>3</sup>              |
|                                                         | 19 ppm                             |

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### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Safety glasses

| Eye protection |                      |                 |          |
|----------------|----------------------|-----------------|----------|
| Type           | Field of application | Characteristics | Standard |
| Safety glasses |                      |                 |          |

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

| Skin and body protection |          |
|--------------------------|----------|
| Type                     | Standard |
| Tyvek® Gown/Coveralls    |          |

##### Hand protection:

Protective gloves

| Hand protection |                      |                   |                |             |            |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type            | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | > 0,1 mm       | 2 (< 1.5)   | EN ISO 374 |

#### Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

| Respiratory protection |              |                   |          |
|------------------------|--------------|-------------------|----------|
| Device                 | Filter type  | Condition         | Standard |
| Reusable half mask     | Type P2      | Dust protection   | EN 143   |
| Reusable half mask     | Filter A2/B2 | Vapour protection | EN 143   |

#### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

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

|                                                 |                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------|
| Physical state                                  | : Liquid                                                                     |
| Colour                                          | : Blue. brown. Yellow. Grey. Green. Purple. red. pink. Violet. white. Black. |
| Odour                                           | : characteristic.                                                            |
| Odour threshold                                 | : Not available                                                              |
| Melting point                                   | : Not applicable                                                             |
| Freezing point                                  | : Not available                                                              |
| Boiling point                                   | : $\geq 100$ °C                                                              |
| Flammability                                    | : Flammable liquid and vapour.                                               |
| Lower explosion limit                           | : Not available                                                              |
| Upper explosion limit                           | : Not available                                                              |
| Flash point                                     | : 23 ( $\geq 23$ ) °C                                                        |
| Auto-ignition temperature                       | : Not available                                                              |
| Decomposition temperature                       | : Not available                                                              |
| pH                                              | : Not available                                                              |
| Viscosity, kinematic                            | : 496.524 – 695.134 mm <sup>2</sup> /s                                       |
| Viscosity, dynamic                              | : 500 (500 – 700) mPa·s                                                      |
| Solubility                                      | : Immiscible.                                                                |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                                              |
| Vapour pressure                                 | : Not available                                                              |
| Vapour pressure at 50°C                         | : Not available                                                              |
| Density                                         | : 1.007 kg/l                                                                 |
| Relative density                                | : Not available                                                              |
| Relative vapour density at 20°C                 | : Not available                                                              |
| Particle characteristics                        | : Not applicable                                                             |

#### 9.2. Other information

##### Other safety characteristics

VOC content : 453 g/l

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Reaction mass of ethylbenzene and m-xylene and p-xylene |                                                         |
|---------------------------------------------------------|---------------------------------------------------------|
| LD50 dermal rabbit                                      | 12126 mg/kg bodyweight Animal: rabbit, Animal sex: male |

| Isotridecylalcohol, ethoxylated, phosphated, compound with N,N-dimethylcyclohexanamine (164383-18-0) |              |
|------------------------------------------------------------------------------------------------------|--------------|
| LD50 oral rat                                                                                        | > 2500 mg/kg |

| 2-methoxy-1-methylethyl acetate (108-65-6) |              |
|--------------------------------------------|--------------|
| LD50 oral                                  | 8532 mg/kg   |
| LD50 dermal rat                            | > 5000 mg/kg |
| LC50 Inhalation - Rat                      | 35.7 mg/l    |

| Hydrocarbons, C9, aromatics (128601-23-0) |                          |
|-------------------------------------------|--------------------------|
| LD50 oral rat                             | 3492 (2000 – 5000) mg/kg |
| LD50 dermal rabbit                        | > 2000 mg/kg             |
| LC50 Inhalation - Rat                     | > 6193 mg/l              |

Skin corrosion/irritation : Causes skin irritation.

| Isotridecylalcohol, ethoxylated, phosphated, compound with N,N-dimethylcyclohexanamine (164383-18-0) |       |
|------------------------------------------------------------------------------------------------------|-------|
| pH                                                                                                   | 5 – 6 |

| 2-methoxy-1-methylethyl acetate (108-65-6) |   |
|--------------------------------------------|---|
| pH                                         | 4 |

Serious eye damage/irritation : Causes serious eye irritation.

| Isotridecylalcohol, ethoxylated, phosphated, compound with N,N-dimethylcyclohexanamine (164383-18-0) |       |
|------------------------------------------------------------------------------------------------------|-------|
| pH                                                                                                   | 5 – 6 |

| 2-methoxy-1-methylethyl acetate (108-65-6) |   |
|--------------------------------------------|---|
| pH                                         | 4 |

Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

| Reaction mass of ethylbenzene and m-xylene and p-xylene |                                   |
|---------------------------------------------------------|-----------------------------------|
| STOT-single exposure                                    | May cause respiratory irritation. |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) |                                                                      |
|--------------------------------------------|----------------------------------------------------------------------|
| STOT-single exposure                       | May cause respiratory irritation. May cause drowsiness or dizziness. |

| 2-methoxy-1-methylethyl acetate (108-65-6) |                                    |
|--------------------------------------------|------------------------------------|
| STOT-single exposure                       | May cause drowsiness or dizziness. |

| Hydrocarbons, C9, aromatics (128601-23-0) |                                                                      |
|-------------------------------------------|----------------------------------------------------------------------|
| STOT-single exposure                      | May cause drowsiness or dizziness. May cause respiratory irritation. |

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### 2-methoxypropyl acetate (70657-70-4)

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| STOT-single exposure   | May cause respiratory irritation.                                    |
| STOT-repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |

### Reaction mass of ethylbenzene and m-xylene and p-xylene

|                            |                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days) | 150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity) |
| STOT-repeated exposure     | May cause damage to organs through prolonged or repeated exposure.                                                                                                                      |

### 2-methylpropan-1-ol; iso-butanol (78-83-1)

|                            |                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days) | > 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|

### 2-methoxy-1-methylethyl acetate (108-65-6)

|                                     |                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| NOAEL (dermal, rat/rabbit, 90 days) | > 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|

### Hydrocarbons, C9, aromatics (128601-23-0)

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days) | 600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|

Aspiration hazard : Not classified

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|                      |                                      |
|----------------------|--------------------------------------|
| Viscosity, kinematic | 496.524 – 695.134 mm <sup>2</sup> /s |
|----------------------|--------------------------------------|

### Reaction mass of ethylbenzene and m-xylene and p-xylene

|                      |                           |
|----------------------|---------------------------|
| Viscosity, kinematic | < 20.5 mm <sup>2</sup> /s |
|----------------------|---------------------------|

### 2-methylpropan-1-ol; iso-butanol (78-83-1)

|                      |                          |
|----------------------|--------------------------|
| Viscosity, kinematic | 3.879 mm <sup>2</sup> /s |
|----------------------|--------------------------|

### Hydrocarbons, C9, aromatics (128601-23-0)

|                      |                          |
|----------------------|--------------------------|
| Viscosity, kinematic | 81.52 mm <sup>2</sup> /s |
|----------------------|--------------------------|

### 2-methoxypropyl acetate (70657-70-4)

|                      |                           |
|----------------------|---------------------------|
| Viscosity, kinematic | ≤ 20.5 mm <sup>2</sup> /s |
|----------------------|---------------------------|

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term : Not classified  
(acute)  
Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.  
(chronic)

### Reaction mass of ethylbenzene and m-xylene and p-xylene

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| EC50 - Crustacea [1] | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia            |
| LOEC (chronic)       | 3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

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| Reaction mass of ethylbenzene and m-xylene and p-xylene                                              |                                                                                                                                             |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| NOEC chronic fish                                                                                    | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'                                  |
| 2-methylpropan-1-ol; iso-butanol (78-83-1)                                                           |                                                                                                                                             |
| LC50 - Fish [1]                                                                                      | 1430 mg/l Test organisms (species): Pimephales promelas                                                                                     |
| EC50 - Crustacea [1]                                                                                 | 1100 mg/l Test organisms (species): Daphnia pulex                                                                                           |
| NOEC (chronic)                                                                                       | 20 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                            |
| Isotridecylalcohol, ethoxylated, phosphated, compound with N,N-dimethylcyclohexanamine (164383-18-0) |                                                                                                                                             |
| LC50 - Fish [1]                                                                                      | 1.01 (1 – 10) mg/l                                                                                                                          |
| 2-methoxy-1-methylethyl acetate (108-65-6)                                                           |                                                                                                                                             |
| LC50 - Fish [1]                                                                                      | > 100 mg/l                                                                                                                                  |
| EC50 - Crustacea [1]                                                                                 | 373 mg/l                                                                                                                                    |
| EC50 72h - Algae [1]                                                                                 | > 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| NOEC (chronic)                                                                                       | ≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                         |
| NOEC chronic fish                                                                                    | 47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'                                                                        |
| Hydrocarbons, C9, aromatics (128601-23-0)                                                            |                                                                                                                                             |
| EC50 - Crustacea [1]                                                                                 | 3.2 mg/l                                                                                                                                    |
| EC50 72h - Algae [1]                                                                                 | 0.42 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)   |
| EC50 72h - Algae [2]                                                                                 | 0.29 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)   |
| 12.2. Persistence and degradability                                                                  |                                                                                                                                             |
| Nelfadur Lakverf 2DN (Base)                                                                          |                                                                                                                                             |
| Persistence and degradability                                                                        | Not established.                                                                                                                            |
| Reaction mass of ethylbenzene and m-xylene and p-xylene                                              |                                                                                                                                             |
| Persistence and degradability                                                                        | Rapidly degradable                                                                                                                          |
| 2-methylpropan-1-ol; iso-butanol (78-83-1)                                                           |                                                                                                                                             |
| Persistence and degradability                                                                        | Rapidly degradable                                                                                                                          |
| Isotridecylalcohol, ethoxylated, phosphated, compound with N,N-dimethylcyclohexanamine (164383-18-0) |                                                                                                                                             |
| Persistence and degradability                                                                        | Rapidly degradable                                                                                                                          |
| Hydroxy acrylic resin                                                                                |                                                                                                                                             |
| Persistence and degradability                                                                        | Rapidly degradable                                                                                                                          |
| 2-methoxy-1-methylethyl acetate (108-65-6)                                                           |                                                                                                                                             |
| Persistence and degradability                                                                        | Rapidly degradable                                                                                                                          |
| Hydrocarbons, C9, aromatics (128601-23-0)                                                            |                                                                                                                                             |
| Persistence and degradability                                                                        | Rapidly degradable                                                                                                                          |
| 2-methoxypropyl acetate (70657-70-4)                                                                 |                                                                                                                                             |
| Persistence and degradability                                                                        | Rapidly degradable                                                                                                                          |

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### 12.3. Bioaccumulative potential

#### 2-methylpropan-1-ol; iso-butanol (78-83-1)

|                                                 |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 0.76 |
|-------------------------------------------------|------|

#### 2-methoxy-1-methylethyl acetate (108-65-6)

|                                                 |     |
|-------------------------------------------------|-----|
| Partition coefficient n-octanol/water (Log Pow) | 1.2 |
|-------------------------------------------------|-----|

#### Hydrocarbons, C9, aromatics (128601-23-0)

|                                                 |     |
|-------------------------------------------------|-----|
| Partition coefficient n-octanol/water (Log Pow) | < 4 |
|-------------------------------------------------|-----|

#### 2-methoxypropyl acetate (70657-70-4)

|                                                 |     |
|-------------------------------------------------|-----|
| Partition coefficient n-octanol/water (Log Pow) | 1.2 |
|-------------------------------------------------|-----|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Nelfadur Lakverf 2DN (Base)

PBT: not yet assessed

vPvB: not yet assessed

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

#### Nelfadur Lakverf 2DN (Base)

|                   |                                   |
|-------------------|-----------------------------------|
| Other information | Avoid release to the environment. |
|-------------------|-----------------------------------|

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                                                                                                   |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                                   |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                                                                                                   |
| Additional information                     | : Flammable vapours may accumulate in the container. Do not re-use empty containers.                                                                                         |
| European List of Waste (LoW, EC 2000/532)  | : 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances<br>08 01 12 - waste paint and varnish other than those mentioned in 08 01 11 |

## SECTION 14: Transport information

In accordance with ADR / RID

| ADR                                  | RID     |
|--------------------------------------|---------|
| <b>14.1. UN number or ID number</b>  |         |
| UN 1263                              | UN 1263 |
| <b>14.2. UN proper shipping name</b> |         |
| PAINT                                | PAINT   |

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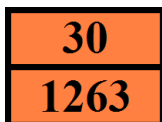
| ADR                                                                               | RID                                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Transport document description</b>                                             |                                                                                     |
| UN 1263 PAINT, 3, III, (D/E)                                                      | UN 1263 PAINT, 3, III                                                               |
| <b>14.3. Transport hazard class(es)</b>                                           |                                                                                     |
| 3                                                                                 | 3                                                                                   |
|  |  |
| <b>14.4. Packing group</b>                                                        |                                                                                     |
| III                                                                               | III                                                                                 |
| <b>14.5. Environmental hazards</b>                                                |                                                                                     |
| Dangerous for the environment: No                                                 | Dangerous for the environment: No                                                   |
| No supplementary information available                                            |                                                                                     |

### 14.6. Special precautions for user

Special transport precautions : In package sizes smaller than 450 L, under the conditions of 2.2.3.1.5.1, this product is ADR exempt.

#### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 163, 367, 650  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Special packing provisions (ADR) : PP1  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T2  
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  
Orange plates :



Tunnel restriction code (ADR) : D/E

#### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 163, 367, 650  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Special packing provisions (RID) : PP1  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T2  
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

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Colis express (express parcels) (RID) : CE4  
Hazard identification number (RID) : 30

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

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

##### EU restriction list (REACH Annex XVII)

| Reference code | Applicable on                                                                                                                                                                                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3(a)           | Nelfadur Lakverf 2DN (Base) ; Reaction mass of ethylbenzene and m-xylene and p-xylene ; 2-methylpropan-1-ol; iso-butanol ; 2-methoxy-1-methylethyl acetate ; Hydrocarbons, C9, aromatics ; 2-methoxypropyl acetate                                                                                          |
| 3(b)           | Nelfadur Lakverf 2DN (Base) ; Reaction mass of ethylbenzene and m-xylene and p-xylene ; 2-methylpropan-1-ol; iso-butanol ; Isotridecylalcohol, ethoxylated, phosphated, compound with N,N-dimethylcyclohexanamine ; 2-methoxy-1-methylethyl acetate ; Hydrocarbons, C9, aromatics ; 2-methoxypropyl acetate |
| 3(c)           | Nelfadur Lakverf 2DN (Base) ; Isotridecylalcohol, ethoxylated, phosphated, compound with N,N-dimethylcyclohexanamine ; Hydrocarbons, C9, aromatics                                                                                                                                                          |

##### REACH Annex XIV (Authorisation List)

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

##### REACH Candidate List (SVHC)

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

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### VOC Directive (2004/42)

VOC content : 453 g/l  
Decopaint Directive (2004/42/EC) - Annex II : A/j (Paints and Varnishes - Two-pack reactive performance coatings for specific end use such as floors)  
Maximum allowed concentration : 500 g/l VOC  
Maximum content of VOC : 453.00 g/l VOC

##### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### National regulations

##### Netherlands

ABM category : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment

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SZW-lijst van kankerverwekkende stoffen : 2-methoxypropyl acetate is listed  
SZW-lijst van mutagene stoffen : 2-methoxypropyl acetate is listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – : None of the components are listed  
Vruchtbaarheid  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : 2-methoxypropyl acetate is listed

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

A chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty.

### Indication of changes

| Section | Changed item               | Comments        |
|---------|----------------------------|-----------------|
|         | Revision date              | <b>Modified</b> |
| 2.1     | Contains                   | <b>Removed</b>  |
| 2.2     | EUH-statements             | <b>Removed</b>  |
| 16      | Abbreviations and acronyms | <b>Modified</b> |

### Abbreviations and acronyms:

|         |                                                                                                   |
|---------|---------------------------------------------------------------------------------------------------|
| DPD     | Dangerous Preparations Directive 1999/45/EC                                                       |
| DSD     | Dangerous Substances Directive 67/548/EEC                                                         |
| REACH   | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| 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                                                                           |
| BLV     | Biological limit value                                                                            |
| BOD     | Biochemical oxygen demand (BOD)                                                                   |
| CAS-No. | Chemical Abstracts Service number                                                                 |
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| COD     | Chemical oxygen demand (COD)                                                                      |
| CSA     | Chemical safety assessment                                                                        |
| DMEL    | Derived Minimal Effect level                                                                      |
| DNEL    | Derived-No Effect Level                                                                           |
| EC-No.  | European Community number                                                                         |
| EC50    | Median effective concentration                                                                    |
| ED      | Endocrine disruptor                                                                               |
| EN      | European Standard                                                                                 |

# Nelfadur Lakverf 2DN (Base)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| EWC                         | European waste catalogue                                                     |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration                                                  |
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |
| MAK                         | maximum workplace concentration                                              |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| OSHA                        | Occupational Safety Health Administration                                    |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| PPE                         | Personal protection equipment                                                |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| TF                          | Technical function                                                           |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| TWA                         | Time Weighted Average                                                        |
| VOC                         | Volatile Organic Compounds                                                   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| UFI                         | Unique Formula Identifier                                                    |

|                 |                                                                                                                                                                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data sources    | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
| Training advice | : Normal use of this product shall imply use in accordance with the instructions on the packaging.                                                                                                                                                                              |

| Full text of H- and EUH-statements: |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4                               |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4                               |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |

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### Full text of H- and EUH-statements:

|               |                                                                                            |
|---------------|--------------------------------------------------------------------------------------------|
| Asp. Tox. 1   | Aspiration hazard, Category 1                                                              |
| Eye Dam. 1    | Serious eye damage/eye irritation, Category 1                                              |
| Eye Irrit. 2  | Serious eye damage/eye irritation, Category 2                                              |
| Flam. Liq. 3  | Flammable liquids, Category 3                                                              |
| Repr. 1B      | Reproductive toxicity, Category 1B                                                         |
| 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, Respiratory tract irritation |
| H226          | Flammable liquid and vapour.                                                               |
| H304          | May be fatal if swallowed and enters airways.                                              |
| H312          | Harmful in contact with skin.                                                              |
| H315          | Causes skin irritation.                                                                    |
| H318          | Causes serious eye damage.                                                                 |
| H319          | Causes serious eye irritation.                                                             |
| H332          | Harmful if inhaled.                                                                        |
| H335          | May cause respiratory irritation.                                                          |
| H336          | May cause drowsiness or dizziness.                                                         |
| H360D         | May damage the unborn child.                                                               |
| H373          | May cause damage to organs through prolonged or repeated exposure.                         |
| H411          | Toxic to aquatic life with long lasting effects.                                           |
| H412          | Harmful to aquatic life with long lasting effects.                                         |
| EUH066        | Repeated exposure may cause skin dryness or cracking.                                      |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                   |      |                       |
|-------------------|------|-----------------------|
| Flam. Liq. 3      | H226 | On basis of test data |
| Skin Irrit. 2     | H315 | Calculation method    |
| Eye Irrit. 2      | H319 | Calculation method    |
| STOT SE 3         | H336 | Calculation method    |
| STOT SE 3         | H335 | Calculation method    |
| STOT RE 2         | H373 | Calculation method    |
| Aquatic Chronic 3 | H412 | Calculation method    |

Safety Data Sheet applicable for regions : NL - Netherlands

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.