

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : ANDRITZ Gear Oil S629  
Product code : 43440

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional use, Consumer use  
Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

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

77 Lubricants B.V.  
NL- 1761 JA  
The Netherlands  
T +31 (0)78 6527652  
[technical@77lubricants.nl](mailto:technical@77lubricants.nl) - [www.77lubricants.nl](http://www.77lubricants.nl)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company   | Address                    | Emergency number | Comment                              |
|----------------|--|----------------------------|------------------|--------------------------------------|
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St<br>Thomas' Hospital Trust | Avonley Road<br>SE14 5ER   | +44 20 7188 7188 |                                      |
| United Kingdom | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital              | Grosvenor Road<br>BT12 6BA | 0344 892 0111    | Only for healthcare<br>professionals |

### SECTION 2: Hazards identification

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

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

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

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Signal word (CLP) : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P273 - Avoid release to the environment.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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### 2.3. Other hazards

Other hazards which do not result in classification : Flammable liquids. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis. Spills of this product present a serious slipping hazard.

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier   | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|--|------------------|---|
| 1-Decene, homopolymer, hydrogenated substance with national workplace exposure limit(s) (BG)   | CAS-No.: 68037-01-4<br>EC-No.: 500-183-1<br>REACH-no: 01-2119486452-34                               | $\geq 75 - < 90$ | Not classified  |
| Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 64742-54-7<br>EC-No.: 265-157-1<br>EC Index-No.: 649-467-00-8<br>REACH-no: 01-2119484627-25 | $\geq 0.3 - < 1$ | Not classified  |
| Amines, C10-14-tert-alkyl  | EC-No.: 701-175-2<br>REACH-no: 01-2119456798-18  | $< 0.3$          | Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 2 (Inhalation:vapour), H330<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410            |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines  | CAS-No.: 1213789-63-9<br>EC-No.: 627-034-4<br>REACH-no: 01-2119473797-19                             | $< 0.1$          | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10)                                   |
| Octylamine substance with national workplace exposure limit(s) (LV)  | CAS-No.: 111-86-4<br>EC-No.: 203-916-0<br>REACH-no: 01-2119474880-31                                 | $< 0.1$          | Flam. Liq. 3, H226<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |

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| Specific concentration limits:                                |  |                                     |
|---|--|-------------------------------------|
| Name  | Product identifier   | Specific concentration limits (%)   |
| Amines, C10-14-tert-alkyl                                     | EC-No.: 701-175-2<br>REACH-no: 01-2119456798-18                          | (6.7 ≤ C ≤ 100) Skin Sens. 1A, H317 |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | CAS-No.: 1213789-63-9<br>EC-No.: 627-034-4<br>REACH-no: 01-2119473797-19 | (10 ≤ C < 100) STOT RE 2, H373      |

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 after inhalation   | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                         |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.           |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : After adequate first aid, no further treatment is required unless symptoms reappear. |
| Symptoms/effects after inhalation   | : After adequate first aid, no further treatment is required unless symptoms reappear. |
| Symptoms/effects after skin contact | : After adequate first aid, no further treatment is required unless symptoms reappear. |
| Symptoms/effects after eye contact  | : After adequate first aid, no further treatment is required unless symptoms reappear. |
| Symptoms/effects after ingestion    | : After adequate first aid, no further treatment is required unless symptoms reappear. |

### 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   | : Water spray. Dry powder. Foam. Carbon dioxide.                |
| Unsuitable extinguishing media | : Do not use a water jet since it may cause the fire to spread. |

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Precautionary measures fire    | : Exercise caution when fighting any chemical fire.  |
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers.   |
| 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 : Avoid spilling the product, as this might cause falls.

#### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area.                        |

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### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
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

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.  
Handling temperature :  $\leq 40\text{ }^{\circ}\text{C}$   
Hygiene measures : 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 : Provide local exhaust or general room ventilation.  
Storage conditions : Store in a well-ventilated place. Keep cool.  
Storage temperature :  $\leq 40\text{ }^{\circ}\text{C}$   
Storage area : Store in a well-ventilated place. Store away from heat.  
Special rules on packaging : Keep only in original container. Store in a closed container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |                     |
|---|---------------------|
| EU - Indicative Occupational Exposure Limit (IOEL)                  |                     |
| IOEL TWA  | 5 mg/m <sup>3</sup> |
| United Kingdom - Occupational Exposure Limits                       |                     |
| WEL TWA (OEL TWA) [1]   | 5 mg/m <sup>3</sup> |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

**Personal protective equipment:**

Gloves. Safety glasses. Protective clothing.

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



#### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses

| Eye protection |                      |                 |          |
|----------------|----------------------|-----------------|----------|
| Type           | Field of application | Characteristics | Standard |
| Safety glasses | Droplet              | clear           | EN 166   |

#### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Time of penetration is to be checked with the glove producer

| Hand protection |                      |                   |                |             |            |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type            | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | >0.35          |             | EN ISO 374 |

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                 |                  |
|-----------------|------------------|
| Physical state  | : Liquid         |
| Colour          | : Yellow. amber. |
| Odour           | : Not available  |
| Odour threshold | : Not available  |
| Melting point   | : Not applicable |

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|   |  |
|---|--|
| Freezing point                                  | : -48 °C (ASTM D7346)                        |
| Boiling point                                   | : Not available                              |
| Flammability                                    | : Non flammable.                             |
| Lower explosion limit                           | : Not available                              |
| Upper explosion limit                           | : Not available                              |
| Flash point                                     | : > 201 °C (ASTM D92)                        |
| Auto-ignition temperature                       | : Not available                              |
| Decomposition temperature                       | : Not available                              |
| pH  | : Not available                              |
| Viscosity, kinematic                            | : 150 mm <sup>2</sup> /s @ 40°C (ASTM D7042) |
| Solubility                                      | : insoluble in water.                        |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                              |
| Vapour pressure                                 | : Not available                              |
| Vapour pressure at 50°C                         | : Not available                              |
| Density   | : 852 kg/m <sup>3</sup> @ 15°C (ASTM D4052)  |
| Relative density                                | : Not available                              |
| Relative vapour density at 20°C                 | : Not available                              |
| Particle characteristics                        | : 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

The product is non-reactive under normal conditions of use, storage and transport.

### 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

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

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

## 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 |

#### 1-Decene, homopolymer, hydrogenated (68037-01-4)

|   |               |
|---|---------------|
| LD50 oral (rat)                             | > 5000 mg/kg  |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5.2 mg/l/4h |

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| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>          |   |
|---|---|
| LD50 oral (rat)   | > 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test  |
| LD50 dermal (rabbit)  | > 2000 mg/kg 402 Acute Dermal Toxicity Test   |
| LC50 inhalation (rat) (mg/l)  | > 5000 mg/l/4h  |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h)   | > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test   |
| <b>C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)</b> |   |
| LD50 oral (rat)   | 1689 mg/kg  |
| LD50 dermal (rat)   | > 2000 mg/kg  |
| <b>Octylamine (111-86-4)</b>  |   |
| LD50 oral (rat)   | 200 mg/kg bw/day  |
| LD50 dermal (rabbit)  | 200 – 2000 mg/kg  |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h)   | 1.6 mg/l/4h   |
| <b>Amines, C10-14-tert-alkyl</b>  |   |
| LD50 oral (rat)   | 612 mg/kg (OECD 401)  |
| LD50 dermal (rat)   | 251 mg/kg (OECD 402)  |
| LC50 inhalation (rat) (Vapours - mg/l/4h)   | 1.19 mg/l/4h (OECD 403)   |
| Skin corrosion/irritation   | : Not classified  |
| <b>C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)</b> |   |
| pH  | 11.7  |
| <b>Octylamine (111-86-4)</b>  |   |
| pH  | 11.8 Temp.: 25 °C Concentration: 10 other:g / 100 ml  |
| Serious eye damage/irritation   | : Not classified  |
| <b>C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)</b> |   |
| pH  | 11.7  |
| <b>Octylamine (111-86-4)</b>  |   |
| pH  | 11.8 Temp.: 25 °C Concentration: 10 other:g / 100 ml  |
| Respiratory or skin sensitisation   | : Not classified  |
| Germ cell mutagenicity  | : Not classified  |
| Carcinogenicity   | : Not classified  |
| Reproductive toxicity   | : Not classified  |
| <b>Octylamine (111-86-4)</b>  |   |
| NOAEL (animal/male, F0/P)   | 100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)   |
| NOAEL (animal/female, F0/P)   | 100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| STOT-single exposure  | : Not classified  |
| <b>C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)</b> |   |
| STOT-single exposure  | May cause respiratory irritation.   |

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| <b>Octylamine (111-86-4)</b>  |   |
|---|---|
| STOT-single exposure  | May cause respiratory irritation.   |
| STOT-repeated exposure  | : Not classified  |
| <b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>                             |   |
| NOAEL (oral, rat, 90 days)  | 4159.4 mg/kg bodyweight/day   |
| NOAEL (subacute, oral, animal/male, 28 days)  | 6245 mg/kg bodyweight   |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>          |   |
| LOAEL (oral, rat, 90 days)  | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 |
| <b>C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)</b> |   |
| STOT-repeated exposure  | May cause damage to organs through prolonged or repeated exposure.                |
| Aspiration hazard   | : Not classified  |
| <b>ANDRITZ Gear Oil S629</b>  |   |
| Viscosity, kinematic  | 150 mm <sup>2</sup> /s @ 40°C (ASTM D7042)  |
| <b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>                             |   |
| Viscosity, kinematic  | 5.1 mm <sup>2</sup> /s @40°C  |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>          |   |
| Viscosity, kinematic  | 98 (98 – 108) mm <sup>2</sup> /s @40°C  |
| <b>Octylamine (111-86-4)</b>  |   |
| Viscosity, kinematic  | 1.756 mm <sup>2</sup> /s  |
| <b>Amines, C10-14-tert-alkyl</b>  |   |
| Viscosity, kinematic  | 3.44 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 (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| <b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>                    |  |
|--|--|
| LC50 - Fish [1]  | > 1000 mg/l                                |
| EC50 - Crustacea [1]   | > 1000 mg/l                                |
| NOEC chronic crustacea   | 125 mg/l (21d)                             |
| NOEC chronic algae   | 1000 mg/l (72h)                            |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b> |  |
| LC50 - Fish [1]  | > 100 mg/l Pimephales promelas             |
| EC50 - Crustacea [1]   | > 10000 mg/l Daphnia magna                 |
| EC50 72h - Algae [1]   | > 100 mg/l Pseudokirchneriella subcapitata |

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| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>          |   |
|---|---|
| NOEC chronic fish   | 1000 mg/l Oncorhynchus mykiss (14d)                                 |
| NOEC chronic crustacea  | 10 mg/l Daphnia magna (21d)   |
| NOEC chronic algae  | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)                    |
| <b>C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)</b> |   |
| LC50 - Fish [1]   | 0.06 mg/l Pimephales promelas (OECD 203)                            |
| LC50 - Fish [2]   | 0.9 mg/l Cyprinodon variegatus                                      |
| EC50 - Crustacea [1]  | 0.011 mg/l Daphnia magna (OECD 202)                                 |
| EC50 72h - Algae [1]  | 0.12 mg/l Desmodesmus subspicatus                                   |
| LOEC (chronic)  | 0.032 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic)  | 0.013 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic crustacea  | 0.013 mg/l Daphnia magna (21d)                                      |
| NOEC chronic algae  | 0.15 mg/l Desmodesmus subspicatus (72h)                             |
| <b>Octylamine (111-86-4)</b>  |   |
| LC50 - Fish [1]   | 5.19 mg/l Pimephales promelas                                       |
| EC50 - Crustacea [1]  | 1.9 mg/l Daphnia magna  |
| EC50 72h - Algae [1]  | 0.23 mg/l Desmodesmus subspicatus                                   |
| NOEC chronic algae  | 0.07 mg/l Desmodesmus subspicatus (72h)                             |
| <b>Amines, C10-14-tert-alkyl</b>  |   |
| LC50 - Fish [1]   | 1.3 mg/l Oncorhynchus mykiss  |
| EC50 - Crustacea [1]  | 2.5 mg/l Daphnia magna  |
| EC50 72h - Algae [1]  | 0.44 mg/l Pseudokirchneriella subcapitata                           |
| NOEC (chronic)  | 0.078 mg/l  |
| NOEC chronic fish   | 0.078 mg/l Oncorhynchus mykiss (96d)                                |
| NOEC chronic algae  | 0.05 mg/l Pseudokirchneriella subcapitata (72h)                     |

### 12.2. Persistence and degradability

| <b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>                             |                            |
|---|----------------------------|
| Persistence and degradability   | Not readily biodegradable. |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>          |                            |
| Persistence and degradability   | Not readily biodegradable. |
| Biodegradation  | 31 % OECD TG 301 F (28d)   |
| <b>C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)</b> |                            |
| Biodegradation  | 66 % OECD 301B (28d)       |
| <b>Octylamine (111-86-4)</b>  |                            |
| Persistence and degradability   | Readily biodegradable.     |
| Biodegradation  | 99 % 11d                   |
| <b>Amines, C10-14-tert-alkyl</b>  |                            |
| Biodegradation  | 21.8 % OECD 301D (28d)     |

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### 12.3. Bioaccumulative potential

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)          |             |
|--|-------------|
| Partition coefficient n-octanol/water (Log Pow)                              | 3.9 – 6     |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9) |             |
| Bioconcentration factor (BCF REACH)  | > 500       |
| Partition coefficient n-octanol/water (Log Kow)                              | 4.33 @ 25°C |
| Octylamine (111-86-4)  |             |
| Partition coefficient n-octanol/water (Log Pow)                              | 2.9         |
| Amines, C10-14-tert-alkyl  |             |
| Partition coefficient n-octanol/water (Log Pow)                              | 2.9 @ 20°C  |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |  |
|--|--|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  |
| European List of Waste (LoW, EC 2000/532)  | : 13 02 06* - synthetic engine, gear and lubricating oils  |
| HP Code                                    | : HP3 - "Flammable:"<br>– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;<br>– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;<br>– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;<br>– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;<br>– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;<br>– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. |

## SECTION 14: Transport information

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

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| ADR                                     | IMDG  | IATA                              | ADN                               | RID                               |
|---|---|-----------------------------------|-----------------------------------|-----------------------------------|
| <b>14.1. UN number or ID number</b>     |   |                                   |                                   |                                   |
| Not regulated for transport             |   |                                   |                                   |                                   |
| <b>14.2. UN proper shipping name</b>    |   |                                   |                                   |                                   |
| Not applicable                          | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| <b>14.3. Transport hazard class(es)</b> |   |                                   |                                   |                                   |
| Not applicable                          | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| <b>14.4. Packing group</b>              |   |                                   |                                   |                                   |
| Not applicable                          | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| <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

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available

### 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

#### 15.1.1. EU-Regulations

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

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### 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)

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### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### Explosives Precursors Regulation (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 (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)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes |   |          |          |
|-----------------------|---|----------|----------|
| Section               | Changed item  | Change   | Comments |
|                       | Revision date   | Modified |          |
|                       | Supersedes  | Modified |          |
| 2.1                   | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Added    |          |
| 2.1                   | Adverse physicochemical, human health and environmental effects | Modified |          |
| 2.2                   | Precautionary statements (CLP)                                  | Added    |          |
| 2.2                   | Hazard statements (CLP)   | Added    |          |
| 3                     | Composition/information on ingredients                          | Modified |          |
| 6.1                   | General measures  | Added    |          |
| 7.1                   | Precautions for safe handling                                   | Modified |          |
| 9.1                   | Freezing point  | Modified |          |
| 9.1                   | Colour  | Modified |          |
| 10.5                  | Incompatible materials  | Added    |          |
| 12.1                  | Ecology - general   | Modified |          |
| 13.1                  | European List of Waste (LoW, EC 2000/532)                       | Added    |          |

### Abbreviations and acronyms:

|      |   |
|------|---|
| 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)   |
| COD  | Chemical oxygen demand (COD)  |
| DMEL | Derived Minimal Effect level  |
| DNEL | Derived-No Effect Level   |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| EC-No.                      | European Community number  |
| EC50                        | Median effective concentration   |
| EN                          | European Standard  |
| 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   |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 2<br>(Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 2                     |
| Acute Tox. 3 (Dermal)               | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3                                 |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4                               |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1                         | Aspiration hazard, Category 1                                     |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Flam. Liq. 3                        | Flammable liquids, Category 3  |
| H226                                | Flammable liquid and vapour.   |
| H301                                | Toxic if swallowed.  |
| H302                                | Harmful if swallowed.  |
| H304                                | May be fatal if swallowed and enters airways.  |
| H311                                | Toxic in contact with skin.  |
| H314                                | Causes severe skin burns and eye damage.   |
| H317                                | May cause an allergic skin reaction.   |
| H318                                | Causes serious eye damage.   |
| H330                                | Fatal if inhaled.  |
| H332                                | Harmful if inhaled.  |
| H335                                | May cause respiratory irritation.  |
| H373                                | May cause damage to organs through prolonged or repeated exposure.                         |
| H400                                | Very toxic to aquatic life.  |
| H410                                | Very toxic to aquatic life with long lasting effects.                                      |
| H411                                | Toxic to aquatic life with long lasting effects.   |
| H412                                | Harmful to aquatic life with long lasting effects.   |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1, Sub-Category 1A                                     |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| Skin Sens. 1A                       | Skin sensitisation, category 1A  |
| 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 |

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.