

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

### 1.1. Product identifier

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Product form                  | : Substance                                |
| Trade name                    | : GLYCERINE 4861                           |
| EC no.                        | : 200-289-5                                |
| CAS No.                       | : 56-81-5                                  |
| REACH registration No.        | : 1907/2006/EC Annex V.9                   |
| C&L notification reference no | : not applicable (non classified; Annex V) |

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

#### Relevant identified uses

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Main use category                 | : Industrial use, Professional use |
| Industrial/Professional use spec. | : Wide dispersive use              |
| Function or use category          | : Cosmetics                        |

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

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Assenedestraat 2  
BE 9940 Ertvelde  
Belgium  
T +32 9 341 10 11, F +32 9 341 10 00  
[sds@oleon.com](mailto:sds@oleon.com), [www.oleon.com](http://www.oleon.com)

### 1.4. Emergency telephone number

|                  |                                                                                                                           |
|------------------|---------------------------------------------------------------------------------------------------------------------------|
| Emergency number | : 24/7 EMERGENCY NUMBER (SGS ERS; Oleon contract nr 76858)<br>+32 3 575 55 55 (worldwide); +1 888 765 6554 (USA tollfree) |
|------------------|---------------------------------------------------------------------------------------------------------------------------|

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

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

No additional information available

### 2.2. Label elements

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

No labelling applicable

### 2.3. Other hazards

|                                                     |                                 |
|-----------------------------------------------------|---------------------------------|
| Other hazards which do not result in classification | : None under normal conditions. |
|-----------------------------------------------------|---------------------------------|

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

| Name     | Product identifier                                                           | %    | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------|------------------------------------------------------------------------------|------|-----------------------------------------------------------------|
| Glycerol | CAS No.: 56-81-5<br>EC no.: 200-289-5<br>REACH-no: 1907/2006/EC<br>Annex V.9 | > 99 | Not classified                                                  |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.  
 First-aid measures after inhalation : Remove victim to fresh air. Respiratory problems: consult a doctor/medical service.  
 First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.  
 First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
 First-aid measures after ingestion : Rinse mouth out with water. Get medical advice/attention if you feel unwell.

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

Symptoms/effects : No supplementary information available.  
 Symptoms/effects after inhalation : On heating: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Coughing.  
 Symptoms/effects after skin contact : No known effects from this product.  
 Symptoms/effects after eye contact : No known effects from this product.  
 Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Nausea. Headache. Vomiting. Diarrhea. Gastrointestinal complaints. Change in the haemogramme/blood composition. Disturbances of heart rate. Decreased renal function. Dehydration.  
 Chronic symptoms : No known effects from this product.

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

No supplementary information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : AFFF foam. BC-powder. Carbon dioxide. Dry sand. Dry chemical powder. Use the extinguishing media recommended for the burning materials and fire situation.  
 Unsuitable extinguishing media : Do not use water jet.

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

|                            |                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire hazard                | : DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.                                                                                                                                                                                                                                                      |
| Explosion hazard           | : No direct explosion hazard.                                                                                                                                                                                                                                                                                                                                             |
| Reactivity in case of fire | : Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapours (acrolein). Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts with (some) acids: (increased) risk of fire/explosion. May polymerize on exposure to temperature rise. On combustion, forms: carbon oxides (CO and CO <sub>2</sub> ). |

## 5.3. Advice for firefighters

|                   |                                           |
|-------------------|-------------------------------------------|
| Other information | : No supplementary information available. |
|-------------------|-------------------------------------------|

# SECTION 6: Accidental release measures

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

|                  |                                                                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Mark the danger area. Exposure to fire/heat: have neighbourhood close doors and windows. Exposure to fire/heat: consider evacuation. Wash contaminated clothing before reuse. |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### For non-emergency personnel

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Protective equipment | : See "Material-Handling" to select protective clothing. |
|----------------------|----------------------------------------------------------|

### For emergency responders

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Protective equipment | : For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|----------------------------------------------------------------------------------------|

## 6.2. Environmental precautions

Prevent soil and water pollution.

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

|                         |                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : Clean contaminated surfaces with an excess of water. Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. |
| Other information       | : No supplementary information available.                                                                                                                      |

## 6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

|                      |                                    |
|----------------------|------------------------------------|
| Handling temperature | : $\geq 10$ °C above melting point |
|----------------------|------------------------------------|

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

|                              |                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum storage period       | : < 12 months Hygroscopic                                                                                                                      |
| Information on mixed storage | : KEEP AWAY FROM: Oxidizing agents. acids. strong acids. bases. strong bases.                                                                  |
| Storage area                 | : Keep container in a well-ventilated place. Store at ambient temperature. Keep out of direct sunlight. Meet the legal requirements.           |
| Special rules on packaging   | : Store in a closed container. Suitably labelled. Keep dry, clean. Meet the legal requirements. Secure fragile packagings in solid containers. |
| Packaging materials          | : SUITABLE MATERIAL: steel. aluminium. iron. synthetic material. glass.                                                                        |

**Switzerland**

Storage class (LK) : LK 10/12 - Liquids

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

No additional information available

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

**8.1. Control parameters**

No additional information available

**8.2. Exposure controls**

**Personal protection equipment**

**Personal protective equipment:**

Gloves. Safety glasses. Protective clothing.

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



**Skin protection**

**Other skin protection**

**Materials for protective clothing:**

Good resistance: Natural rubber. Neoprene. Polyvinylchloride (PVC). Viton. Less resistance: Styrene-butadiene rubber. Poor resistance: Polyurethane

**SECTION 9: Physical and chemical properties**

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

|                                                 |                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Physical state                                  | : Liquid                                                                                                     |
| Colour                                          | : Colourless to light yellow.                                                                                |
| Appearance (room temperature)                   | : Liquid.                                                                                                    |
| Odour                                           | : odourless.                                                                                                 |
| Odour threshold                                 | : Not available                                                                                              |
| Melting point                                   | : No supplementary information available                                                                     |
| Freezing point                                  | : ca. 18 °C                                                                                                  |
| Softening point                                 | : < 20 °C                                                                                                    |
| Boiling point                                   | : 290 °C (1013 hPa)                                                                                          |
| HMIS Flammability                               | : Not available                                                                                              |
| Lower explosion limit                           | : Not available                                                                                              |
| Upper explosion limit                           | : Not available                                                                                              |
| Flash point                                     | : 199 °C (Closed cup, 1013 hPa, ISO 2719 : Flash point (Pensky-Martens))                                     |
| Auto-ignition temperature                       | : 370 °C                                                                                                     |
| Decomposition temperature                       | : 290 °C                                                                                                     |
| pH                                              | : 6 – 7.5 (10% in water)                                                                                     |
| Viscosity, kinematic                            | : 1121 mm <sup>2</sup> /s (20 °C, Calculated)                                                                |
| Viscosity, dynamic                              | : 1412 mPa·s (20 °C, OECD 114: Viscosity of Liquids)                                                         |
| Solubility                                      | : Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in ethylacetate. Insoluble in oils/fats. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                                                                              |

|                                                 |                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | : -1.75 (Experimental data (OECD 107 method), 25°C)                                                            |
| Vapour pressure                                 | : < 0.01 hPa (20 °C)                                                                                           |
| Vapour pressure at 50 °C                        | : Not available                                                                                                |
| Density                                         | : ca. 1260 kg/m <sup>3</sup> (25°C)<br>ca. 1249 kg/m <sup>3</sup> (40°C)<br>ca. 1209 kg/m <sup>3</sup> (100°C) |
| Relative density                                | : 1.26 (20 °C)                                                                                                 |
| Relative vapour density at 20°C                 | : 3.2 (calculated value)                                                                                       |
| Relative density of saturated gas/air mixture   | : 1                                                                                                            |
| Particle characteristics                        | : Not applicable                                                                                               |

## 9.2. Other information

### Information with regard to physical hazard classes

|                      |          |
|----------------------|----------|
| Critical temperature | : 452 °C |
|----------------------|----------|

### Other safety characteristics

|                       |                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific conductivity | : 6400000 pS/m                                                                                                                                                                                                    |
| VOC content           | : < 1 % (1999/13/EC; 2004/42/EC; 2010/75/EU; SR 814.018)                                                                                                                                                          |
| Other properties      | : Soluble in water, Soluble in ethanol, Soluble in acetone, Soluble in ethylacetate, Insoluble in oils/fats, Slightly volatile, Gas/vapour heavier than air at 20°C, Hygroscopic, Neutral reaction, clear, Syrupy |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Decomposes on exposure to temperature rise: release of (highly) toxic gases/vapours. On combustion, forms: carbon oxides (CO and CO<sub>2</sub>). May polymerize on exposure to temperature rise. Reacts with (some) acids: (increased) risk of fire/explosion. Reacts violently with (strong) oxidizers.

### 10.2. Chemical stability

Hygroscopic.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No supplementary information available.

### 10.5. Incompatible materials

No supplementary information available.

### 10.6. Hazardous decomposition products

May liberate toxic gases.

## 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 |

**GLYCERINE 4861 (56-81-5)**

|                    |               |
|--------------------|---------------|
| LD50 oral rat      | 12600 mg/kg   |
| LD50 dermal rabbit | > 10000 mg/kg |

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| Skin corrosion/irritation         | : Not classified<br>pH: 6 – 7.5 (10% in water) |
| Serious eye damage/irritation     | : Not classified<br>pH: 6 – 7.5 (10% in water) |
| Respiratory or skin sensitisation | : Not classified                               |
| Germ cell mutagenicity            | : Not classified                               |
| Carcinogenicity                   | : Not classified                               |
| Reproductive toxicity             | : Not classified                               |
| STOT-single exposure              | : Not classified                               |
| STOT-repeated exposure            | : Not classified                               |
| Aspiration hazard                 | : Not classified                               |

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|                      |                                             |
|----------------------|---------------------------------------------|
| Viscosity, kinematic | 1121 mm <sup>2</sup> /s (20 °C, Calculated) |
|----------------------|---------------------------------------------|

**11.2. Information on other hazards**

No additional information available

**SECTION 12: Ecological information**

**12.1. Toxicity**

|                                                           |                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : No supplementary information available.                                                                                                                                                                                                                                                                                                            |
| Ecology - air                                             | : TA Luft Class 5.2.5.                                                                                                                                                                                                                                                                                                                               |
| Ecology - water                                           | : Mild water pollutant (surface water)<br>Not harmful to fishes (LC50(96h) > 1000 mg/l)<br>Not harmful to aquatic organisms (EC50 > 1000 mg/l)<br>Not harmful to algae<br>Not harmful to bacteria<br>Bioaccumulation: not applicable<br>Sludge digestion is inhibited at > 1000 mg/l 50%<br>Readily biodegradable in water (OECD 301D: 82%; 20 days) |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                                                                                                                                                                                                                                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                                                                                                                                                                                                                                                     |

**GLYCERINE 4861 (56-81-5)**

|                                    |                                                          |
|------------------------------------|----------------------------------------------------------|
| LC50 - Fish [1]                    | 54000 mg/l (96 h, SALMO GAIARDNERI/ ONCORHYNCHUS MYKISS) |
| LC50 - Fish [2]                    | > 1000 mg/l (96 h, PISCES)                               |
| LC50 - Other aquatic organisms [1] | > 1000 mg/l (96 h)                                       |
| EC50 - Crustacea [2]               | > 10000 mg/l (24 h, DAPHNIA MAGNA, LOCOMOTOR EFFECT)     |
| EC50 - Other aquatic organisms [1] | > 1000 mg/l (BACTERIA, ACTIVATED SLUDGE)                 |
| TLM - Fish [1]                     | > 1000 ppm (96 h, PISCES)                                |

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|                                               |                                                              |
|-----------------------------------------------|--------------------------------------------------------------|
| TLM - Other aquatic organisms [1]             | > 1000 ppm (96 h)                                            |
| Threshold limit - Other aquatic organisms [1] | 2900 mg/l (192 h, MICROCYSTIS AERUGINOSA, TOXICITY TEST)     |
| Threshold limit - Other aquatic organisms [2] | > 10000 mg/l (16 h, PSEUDOMONAS PUTIDA, TOXICITY TEST)       |
| Threshold limit - Algae [1]                   | > 10000 mg/l (168 h, SCENEDESMUS QUADRICAUDA, TOXICITY TEST) |

#### 12.2. Persistence and degradability

##### GLYCERINE 4861 (56-81-5)

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Persistence and degradability   | Rapidly degradable                             |
| Biochemical oxygen demand (BOD) | 0.87 g O <sub>2</sub> /g substance             |
| Chemical oxygen demand (COD)    | 1.16 g O <sub>2</sub> /g substance (ISO 15705) |
| ThOD                            | 1.217 g O <sub>2</sub> /g substance            |
| BOD (% of ThOD)                 | 71 % ThOD                                      |

#### 12.3. Bioaccumulative potential

##### GLYCERINE 4861 (56-81-5)

|                                                 |                                                   |
|-------------------------------------------------|---------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -1.75 (Experimental data (OECD 107 method), 25°C) |
|-------------------------------------------------|---------------------------------------------------|

#### 12.4. Mobility in soil

##### GLYCERINE 4861 (56-81-5)

|                 |                                              |
|-----------------|----------------------------------------------|
| Surface tension | 0.063 N/m (20°C)                             |
| Ecology - soil  | Biodegradability in soil: no data 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

##### GLYCERINE 4861 (56-81-5)

|                   |                                        |
|-------------------|----------------------------------------|
| Other information | No supplementary information available |
|-------------------|----------------------------------------|

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                           |                                                                                                                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal                  | : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite, or kieselguhr, powdered limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling |
| Regional waste regulation | : No supplementary information available.                                                                                                                                                                                                                                                                           |

Ecological waste information : LWCA (the Netherlands): KGA category 03. Recycle by distillation. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Do not discharge into surface water.

European List of Waste (LoW, EC 2000/532) : No supplementary information available

## SECTION 14: Transport information

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

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|-----------------------------------------|----------------|----------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <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>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| Marine pollutant: no                    |                |                |                |                |

## 14.6. Special precautions for user

### Overland transport

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

## 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)

Not listed on REACH Annex XVII

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

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

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

Not listed on the PIC list (Regulation EU 649/2012)

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

Not listed on the POP list (Regulation EU 2019/1021)

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

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

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

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

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

VOC content : < 1 % (1999/13/EC; 2004/42/EC; 2010/75/EU; SR 814.018)

##### 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

|                          |                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical inventories     | : Compliant with AICIS, DSL, EU REACH, IECSC, INSQ, ISRAEL, Japan ENCS, Japan ISHL, KECL, NCI, NZIoC, PICCS, TCSI, TECI_DIW, TECI_FDA, TR EAEU, TSCA |
| KKDIK number (Turkey)    | : KKDIK Annex V.9                                                                                                                                    |
| K-REACH (Korea)          | : exempted from (pre)registration according to K-REACH Appendix 1.4                                                                                  |
| UK-REACH (Great Britain) | : exempted from registration                                                                                                                         |
| Swiss ChemO (SR 813.11)  | : This substance is not subject to the obligation to register pursuant to art.61 of the Chemicals Ordinance (ChemO)                                  |

#### Germany

|                          |                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Employment restrictions  | : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).<br>Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG). |
| Water hazard class (WGK) | : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 116).                                                                                                  |
| VOC content              | : < 1 % (1999/13/EC; 2004/42/EC; 2010/75/EU; SR 814.018)                                                                                                                              |

#### Netherlands

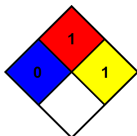
|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| ABM category                            | : B(5) - low hazard for aquatic organisms |
| SZW-lijst van kankerverwekkende stoffen | : The substance is not listed             |

|                                                      |                               |
|------------------------------------------------------|-------------------------------|
| SZW-lijst van mutagene stoffen                       | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding   | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling   | : The substance is not listed |

### 15.2. Chemical safety assessment

No chemical safety assessment needed: the substance is not classified and exempt from Regulation EC No 1907/2006 (REACH) under Annex V, point 9.

## SECTION 16: Other information

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Training advice                  | : No supplementary information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Chemical inventories legend      | : AICIS = Australian Inventory of Industrial Chemicals<br>DSL = Canadian Domestic Substances List<br>EU REACH = European Union REACH Regulation 1907/2006<br>IECSC = Inventory of Existing Chemicals Substances in China<br>INSQ = Mexico National Inventory of Chemical Substance<br>ISRAEL = Proposed Israel Hazardous Substances List, 2007<br>Japan ENCS = Japanese Existing Chemical Substances (ISHL)<br>Japan ISHL = Japanese Existing and New Chemical Substances (CSCL)<br>KECL = Korean Existing Chemical List<br>NCI = Vietnam National Chemical Inventory<br>NZIoC = New Zealand Inventory of Chemicals<br>PICCS = Philippines Inventory of Chemicals and Chemical Substances<br>TCSI = Taiwan Chemical Substance Inventory<br>TECI_DIW = Thailand Existing Chemicals Inventory - Department of Industrial Works List<br>TECI_FDA = Thailand Existing Chemicals Inventory - Food and Drug Administration List<br>TR EAEU = Eurasian Economic Union Unified list of chemicals<br>TSCA = USA Toxic Substances Control Act |
| SDS changed sections             | : 9 - Physical and chemical properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SDS Reason for revision          | : No supplementary information available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| NFPA health hazard               | : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NFPA fire hazard                 | : 1 - Materials that must be preheated before ignition can occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NFPA reactivity                  | : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NFPA image                       | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Other information                | : No supplementary information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| The classification complies with | : ATP 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

SDS EU Oleon Annex II

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.