

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

### 1.1. Product identifier

|              |                                                                                                                               |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|
| Product form | : Mixture                                                                                                                     |
| Trade name   | : RADIA 7798                                                                                                                  |
| REACH number | : all the ingredients of this product in the scope of Regulation 1907/2006/EC (REACH), if not exempted, have been registered. |

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

#### Relevant identified uses

|                                   |                       |
|-----------------------------------|-----------------------|
| Main use category                 | : Industrial use      |
| Industrial/Professional use spec. | : Wide dispersive use |

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

OLEON N.V.  
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

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 %

## Component

Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name                                                 | Product identifier                                                      | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------------------------|-------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| Dimer diol                                           | CAS No.: 147853-32-5<br>EC no.: 604-608-2<br>REACH-no: 01-2119976280-36 | 20 – 50 | Not classified                                                  |
| Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester | CAS No.: 56519-68-7<br>EC no.: 941-930-5<br>REACH-no: 01-2120995235-45  | 20 – 50 | Not classified                                                  |
| Ethylcellulose                                       | CAS No.: 9004-57-3<br>EC no.: polymer                                   | ≤ 10    | 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 | : Wash off immediately with soap and plenty of water. If irritation persists, consult a doctor.                                                                                                                         |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Consult an ophthalmologist if irritation persists.                                                                                                                            |
| First-aid measures after ingestion    | : Rinse mouth out with water. Get medical advice/attention if you feel unwell. Call a poison center ( <a href="http://www.who.int/ipcs/poisons/centre/directory/en">www.who.int/ipcs/poisons/centre/directory/en</a> ). |

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

|                  |                                           |
|------------------|-------------------------------------------|
| Symptoms/effects | : No supplementary information available. |
|------------------|-------------------------------------------|

### 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: Heating may cause a fire or explosion. Temperature above flashpoint: higher fire/explosion hazard.
- Explosion hazard : No direct explosion hazard.
- Reactivity in case of fire : On burning: release of carbon monoxide/carbon dioxide.

### 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 a soap solution. Flush/dilute with water. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or 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 :  $\geq 10\text{ }^{\circ}\text{C}$  above melting point

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

- Information on mixed storage : KEEP AWAY FROM: 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. Meet the legal requirements.

Packaging materials : No supplementary information available.

### 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. Protective clothing. Safety glasses.

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



#### Skin protection

##### Other skin protection

##### Materials for protective clothing:

Good resistance: Nitrile rubber

## SECTION 9: Physical and chemical properties

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

|                                                              |                                           |
|--------------------------------------------------------------|-------------------------------------------|
| Physical state                                               | : Liquid                                  |
| Colour                                                       | : No supplementary information available. |
| Appearance (room temperature)                                | : No supplementary information available. |
| Odour                                                        | : Characteristic. Sweet odour.            |
| Odour threshold                                              | : Not available                           |
| Melting point                                                | : No supplementary information available  |
| Freezing point                                               | : Not available                           |
| Boiling point                                                | : > 150 °C                                |
| HMIS Flammability                                            | : Not available                           |
| Lower explosion limit                                        | : Not available                           |
| Upper explosion limit                                        | : Not available                           |
| Flash point                                                  | : > 120 °C                                |
| Auto-ignition temperature                                    | : > 250 °C                                |
| Decomposition temperature                                    | : Flash point                             |
| pH                                                           | : Not available                           |
| Viscosity, kinematic                                         | : 3157.895 mm <sup>2</sup> /s             |
| Viscosity, dynamic                                           | : ≈ 3 Pa·s (25°C)                         |
| Solubility                                                   | : Not available                           |
| Partition coefficient n-octanol/water (Log K <sub>ow</sub> ) | : Not available                           |
| Vapour pressure                                              | : No supplementary information available  |
| Vapour pressure at 50 °C                                     | : Not available                           |
| Density                                                      | : ≈ 0.95 g/cm <sup>3</sup>                |

|                                 |                  |
|---------------------------------|------------------|
| Relative density                | : Not available  |
| Relative vapour density at 20°C | : Not available  |
| Particle characteristics        | : Not applicable |

#### Ethylcellulose

|                           |                                        |
|---------------------------|----------------------------------------|
| Flash point               | No supplementary information available |
| Auto-ignition temperature | No supplementary information available |
| Vapour pressure           | No supplementary information available |

### 9.2. Other information

#### Other safety characteristics

|                  |                                                                              |
|------------------|------------------------------------------------------------------------------|
| VOC content      | : not determined (1999/13/EC; 2004/42/EC; 2010/75/EU)                        |
| Other properties | : Insoluble in water, Soluble in oils/fats, Soluble in most organic solvents |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

On burning: release of carbon monoxide/carbon dioxide.

### 10.2. Chemical stability

Stable under normal conditions.

### 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

No supplementary information available.

## 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 |

#### RADIA 7798

|               |                        |
|---------------|------------------------|
| LD50 oral rat | > 2000 mg/kg Non-toxic |
|---------------|------------------------|

#### Dimer diol (147853-32-5)

|               |                        |
|---------------|------------------------|
| LD50 oral rat | > 2000 mg/kg Non-toxic |
|---------------|------------------------|

**Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)**

LD50 oral rat : > 5000 mg/kg Non-toxic

Skin corrosion/irritation : Not classified

**Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)**

pH : 5 – 8

Serious eye damage/irritation : Not classified

**Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)**

pH : 5 – 8

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 : 3157.9 mm<sup>2</sup>/s

**Dimer diol (147853-32-5)**

Viscosity, kinematic : ca. 850 mm<sup>2</sup>/s (40°C)

**Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)**

Viscosity, kinematic : ≈ 7.5 mm<sup>2</sup>/s (20°C)

**11.2. Information on other hazards**

No additional information available

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Ecology - air : No supplementary information available.

Ecology - water : No data available concerning bioaccumulation

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

Hazardous to the aquatic environment, long-term (chronic) : Not classified

**Dimer diol (147853-32-5)**

LC50 - Fish [1] : > 350 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, Nominal concentration)

EC50 - Other aquatic organisms [1] : > 100 mg/l

## 12.2. Persistence and degradability

### RADIA 7798

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| Persistence and degradability | Readily biodegradable in water.                                 |
| Biodegradation                | ≈ 87.7 % (28d; OECD301B; Oleon internal study P4902; 9/10/2024) |

### Dimer diol (147853-32-5)

|                               |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |
| Biodegradation                | ca. 17 % (28d.; OECD 301B)          |

### Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### Ethylcellulose (9004-57-3)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

## 12.3. Bioaccumulative potential

### Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)

|                                                 |     |
|-------------------------------------------------|-----|
| Partition coefficient n-octanol/water (Log Pow) | > 5 |
|-------------------------------------------------|-----|

## 12.4. Mobility in soil

### RADIA 7798

|                |                                              |
|----------------|----------------------------------------------|
| Ecology - soil | Biodegradability in soil: no data available. |
|----------------|----------------------------------------------|

### Dimer diol (147853-32-5)

|                |                                              |
|----------------|----------------------------------------------|
| Ecology - soil | Biodegradability in soil: no data available. |
|----------------|----------------------------------------------|

### Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)

|                |                                              |
|----------------|----------------------------------------------|
| 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

### RADIA 7798

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

### Dimer diol (147853-32-5)

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

### Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester (56519-68-7)

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

**Ethylcellulose (9004-57-3)**

Other information

No supplementary information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

|                                           |                                                                                                                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal                                  | : Prevent dispersion by covering with dry absorbent,Scoop solid spill into closing containers,Scoop absorbed substance into closing containers,Clean contaminated surfaces with an excess of water and soap solution,Wash clothing and equipment after handling |
| Regional waste regulation                 | : No supplementary information available.                                                                                                                                                                                                                       |
| Ecological waste information              | : Do not discharge into drains or the environment. Remove to an authorized waste treatment plant.                                                                                                                                                               |
| 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 |
| No supplementary information available  |                |                |                |                |

**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)**

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)

**Ozone Regulation (2024/590)**

Not listed on the Ozone Depletion list (Regulation EU 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 : not determined (1999/13/EC; 2004/42/EC; 2010/75/EU)

**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 EU REACH, NCI, TR EAEU                                                       |
| KKDIK number (Turkey)    | : not all the ingredients of this product in the scope of KKDIK have been (pre-)registered.   |
| K-REACH (Korea)          | : not all the ingredients of this product in the scope of K-REACH have been (pre-)registered. |
| UK-REACH (Great Britain) | : not all the ingredients of this product in the scope of UK-REACH have been notified.        |

### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).  
VOC content : not determined (1999/13/EC; 2004/42/EC; 2010/75/EU)

### Netherlands

ABM category : A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment  
SZW List of Carcinogenic Substances : None of the components are listed  
SZW List of Mutagenic Substances : None of the components are listed  
SZW List of Reprotoxic Substances – Breastfeeding : None of the components are listed  
SZW List of Reprotoxic Substances – Fertility : None of the components are listed  
SZW List of Reprotoxic Substances – Development : None of the components are listed

## 15.2. Chemical safety assessment

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

Dimer diol  
Heptanoic acid, 1,1'-(1-methyl-1,2-ethanediyl) ester

## SECTION 16: Other information

Training advice : No supplementary information available.  
Chemical inventories legend : EU REACH = European Union REACH Regulation 1907/2006  
NCI = Vietnam National Chemical Inventory  
TR EAEU = Eurasian Economic Union Unified list of chemicals  
SDS changed sections : 15 - Regulatory information  
SDS Reason for revision : No supplementary information available  
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.