

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

### 1.1. Product identifier

|                               |                         |
|-------------------------------|-------------------------|
| Product form                  | : Substance             |
| Trade name                    | : RADIA 7744            |
| IUPAC name                    | : Tetradecyl myristate  |
| EC no.                        | : 221-787-9             |
| CAS No.                       | : 3234-85-3             |
| REACH registration No.        | : 01-2119969648-15      |
| C&L notification reference no | : 02-2119959136-32-0000 |

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

#### Relevant identified uses

|                              |                  |
|------------------------------|------------------|
| Main use category            | : Industrial use |
| Use of the substance/mixture | : Additive       |

| Title                                                                      | Life cycle stage | Use descriptors                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General overview of industrial uses of long chain monoalkyl fatty acids    | Industrial       | SU0, SU10, SU11, SU12, PC9a, PC18, PC24, PC25, PC32, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC17, PROC21, PROC24, ERC3, ERC4, ERC5, ERC6d, ERC8b, ERC10a, ERC10b, ERC11a |
| General overview of professional uses of long chain monoalkyl fatty acids  | Professional     | SU0, SU12, PC9b, PC24, PC25, PC32, PROC8a, PROC17, PROC19, ERC8a, ERC8c, ERC8f                                                                                                                                                               |
| General overview of consumer uses of long chain monoalkyl fatty acids      | Consumer         | PC39, ERC8a, ERC8d                                                                                                                                                                                                                           |
| General overview of manufacturing uses of long chain monoalkyl fatty acids |                  | PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC15, ERC1                                                                                                                                                                                            |
| General overview of formulation uses of long chain monoalkyl fatty acids   |                  | PC9a, PC17, PC18, PC24, PC25, PC28, PC29, PC32, PC39, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC21, PROC24, ERC2, ERC3                                                    |

Full text of use descriptors: see section 16

### 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

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

The substance is 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

## 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] |
|----------------------|-----------------------------------------------------------------------|-----|-----------------------------------------------------------------|
| Tetradecyl myristate | CAS No.: 3234-85-3<br>EC no.: 221-787-9<br>REACH-no: 01-2119969648-15 | 100 | 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. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.

Explosion hazard : DIRECT EXPLOSION HAZARD: Fine dust dispersed in air may ignite. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark.

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. Prevent dust cloud formation, e.g. by wetting. Dust production: have neighbourhood close doors and windows. Exposure to fire/heat: have neighbourhood close doors and windows. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.

##### 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

For containment : Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.

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

|                               |                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with applicable regulations. Wash contaminated clothing before reuse. Keep container tightly closed. |
| Handling temperature          | : $\geq 10$ °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   | : 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):



#### Eye and face protection

##### Eye protection:

Safety glasses (EN 166). In case of dust production: protective goggles (EN 166)

#### Skin protection

##### Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

##### Hand protection:

Protective gloves against chemicals (EN 374)

##### Other skin protection

##### Materials for protective clothing:

Good resistance: Nitrile rubber

## Respiratory protection

### Respiratory protection:

Dust production: dust mask with filter type P1

## SECTION 9: Physical and chemical properties

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

|                                                 |                                                       |
|-------------------------------------------------|-------------------------------------------------------|
| Physical state                                  | : Solid                                               |
| Colour                                          | : White to off-white.                                 |
| Appearance (room temperature)                   | : Solid.                                              |
| Odour                                           | : Characteristic. Mild odor.                          |
| Odour threshold                                 | : Not available                                       |
| Melting point                                   | : ca. 41 °C                                           |
| Freezing point                                  | : Not available                                       |
| Boiling point                                   | : > 150 °C                                            |
| HMIS Flammability                               | : Not available                                       |
| Explosive properties                            | : Predicted negative.                                 |
| Oxidising properties                            | : Predicted negative.                                 |
| Lower explosion limit                           | : Not applicable                                      |
| Upper explosion limit                           | : Not applicable                                      |
| Flash point                                     | : > 120 °C (ASTM D92)                                 |
| Auto-ignition temperature                       | : > 250 °C                                            |
| Decomposition temperature                       | : Flash point                                         |
| pH                                              | : 5 – 8                                               |
| pH solution                                     | : Not available                                       |
| Viscosity, kinematic                            | : Not applicable (solid)                              |
| Viscosity, dynamic                              | : Not applicable (solid)                              |
| Solubility                                      | : Insoluble in water.<br>Water: < 0.1 g/100ml (22 °C) |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                       |
| Partition coefficient n-octanol/water (Log Pow) | : 5.8 (QSAR, KOWWIN)                                  |
| Vapour pressure                                 | : < 0.01 hPa (20 °C, Calculated)                      |
| Vapour pressure at 50 °C                        | : Not available                                       |
| Density                                         | : 860 kg/m <sup>3</sup> (20 °C, Calculated)           |
| Relative density                                | : 0.86 (20 °C, Calculated)                            |
| Relative vapour density at 20°C                 | : 14.7 (Calculated)                                   |
| Particle size                                   | : Not available                                       |

### 9.2. Other information

#### Other safety characteristics

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| VOC content      | : < 0.1 Wt-% (1999/13/EC; 2004/42/EC; 2010/75/EU)                                 |
| Other properties | : Soluble in oils/fats, Soluble in most organic solvents, Poorly soluble in water |

## 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 |

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

|                                   |                               |
|-----------------------------------|-------------------------------|
| Skin corrosion/irritation         | : Not classified<br>pH: 5 – 8 |
| Serious eye damage/irritation     | : Not classified<br>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              |

#### RADIA 7744 (3234-85-3)

|                      |                        |
|----------------------|------------------------|
| Viscosity, kinematic | Not applicable (solid) |
|----------------------|------------------------|

### 11.2. Information on other hazards

#### Endocrine disrupting properties

|                                                                  |                                                                 |
|------------------------------------------------------------------|-----------------------------------------------------------------|
| Adverse health effects caused by endocrine disrupting properties | : The substance/mixture has no endocrine disrupting properties. |
|------------------------------------------------------------------|-----------------------------------------------------------------|

## 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                                                                                                                |
| Ecology - water                                           | : Slightly harmful to crustacea (Daphnia). Slightly harmful to fishes. Not harmful to activated sludge. Slightly harmful to algae. No significant hydrolysis. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                                                              |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                                                              |

## 12.2. Persistence and degradability

### RADIA 7744 (3234-85-3)

|                               |                                 |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
|-------------------------------|---------------------------------|

## 12.3. Bioaccumulative potential

### RADIA 7744 (3234-85-3)

|                                                 |                    |
|-------------------------------------------------|--------------------|
| Partition coefficient n-octanol/water (Log Pow) | 5.8 (QSAR, KOWWIN) |
|-------------------------------------------------|--------------------|

## 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

|                                                                              |                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adverse effects on the environment caused by endocrine disrupting properties | : The substance is 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. |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 12.7. Other adverse effects

### RADIA 7744 (3234-85-3)

|                   |                                        |
|-------------------|----------------------------------------|
| 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.                                                                                                                                                                                                                           |
| Product/Packaging disposal recommendations | : Do not discharge into drains or the environment. Dispose of at authorized waste collection point. Remove waste in accordance with local and/or national regulations.                                                                                              |
| Additional information                     | : Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.                                                                                                           |
| 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 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                    |
| <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 |
| Marine pollutant: no                    |                                                           |                                   |                                   |                                   |

## 14.6. Special precautions for user

### Overland transport

Transport regulations (ADR) : Not subject

### Transport by sea

Transport regulations (IMDG) : Not subject

### Air transport

Transport regulations (IATA) : Not subject

### Inland waterway transport

No data available

### Rail transport

Transport regulations (RID) : Not subject

## 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 : < 0.1 Wt-% (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 AICIS, DSL, EU REACH, IECSC, Japan ENCS, Japan ISHL, KECL, NCI, NZIoC, PICCS, TCSI, TECI_DIW, TECI_FDA, TR EAEU, TSCA |
| KKDIK number (Turkey)    | : not preregistered                                                                                                                    |
| K-REACH (Korea)          | : preregistered                                                                                                                        |
| UK-REACH (Great Britain) | : DUIN submitted                                                                                                                       |
| 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

|                          |                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water hazard class (WGK) | : WGK nwg, Non-hazardous to water (Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV); ID No. 660). |
| VOC content              | : < 0.1 Wt-% (1999/13/EC; 2004/42/EC; 2010/75/EU)                                                                                                            |

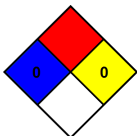
### Netherlands

|                                                   |                                           |
|---------------------------------------------------|-------------------------------------------|
| ABM category                                      | : B(4) - low hazard for aquatic organisms |
| SZW List of Carcinogenic Substances               | : The substance is not listed             |
| SZW List of Mutagenic Substances                  | : The substance is not listed             |
| SZW List of Reprotoxic Substances – Breastfeeding | : The substance is not listed             |
| SZW List of Reprotoxic Substances – Fertility     | : The substance is not listed             |
| SZW List of Reprotoxic Substances – Development   | : The substance is not listed             |

## 15.2. Chemical safety assessment

The chemical safety assessment has been carried out, an exposure scenario is not applicable (substance is not classified).

## 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>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        | : 6 - Accidental release measures;12 - Ecological information;15 - Regulatory information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 reactivity             | : 0 - Material that in themselves are normally stable, even under fire conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| NFPA image                  | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Other information           | : No supplementary information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Full text of use descriptors |                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| ERC1                         | Manufacture of the substance                                                                                           |
| ERC10a                       | Widespread use of articles with low release (outdoor)                                                                  |
| ERC10b                       | Widespread use of articles with high or intended release (outdoor)                                                     |
| ERC11a                       | Widespread use of articles with low release (indoor)                                                                   |
| ERC2                         | Formulation into mixture                                                                                               |
| ERC3                         | Formulation into solid matrix                                                                                          |
| ERC4                         | Use of non-reactive processing aid at industrial site (no inclusion into or onto article)                              |
| ERC5                         | Use at industrial site leading to inclusion into/onto article                                                          |
| ERC6d                        | Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) |
| ERC8a                        | Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)                              |
| ERC8b                        | Widespread use of reactive processing aid (no inclusion into or onto article, indoor)                                  |
| ERC8c                        | Widespread use leading to inclusion into/onto article (indoor)                                                         |
| ERC8d                        | Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)                             |
| ERC8f                        | Widespread use leading to inclusion into/onto article (outdoor)                                                        |
| PC17                         | Hydraulic Fluids                                                                                                       |

**Full text of use descriptors**

|        |                                                                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PC18   | Ink and Toners                                                                                                                                                       |
| PC24   | Lubricants, greases, release products                                                                                                                                |
| PC25   | Metal working fluids                                                                                                                                                 |
| PC28   | Perfumes, fragrances                                                                                                                                                 |
| PC29   | Pharmaceuticals                                                                                                                                                      |
| PC32   | Polymer preparations and compounds                                                                                                                                   |
| PC39   | Cosmetics, personal care products                                                                                                                                    |
| PC9a   | Coatings and paints, thinners, paint removers                                                                                                                        |
| PC9b   | Fillers, putties, plasters, modelling clay                                                                                                                           |
| PROC10 | Roller application or brushing                                                                                                                                       |
| PROC12 | Use of blowing agents in manufacture of foam                                                                                                                         |
| PROC13 | Treatment of articles by dipping and pouring                                                                                                                         |
| PROC14 | Tabletting, compression, extrusion, pelettisation, granulation                                                                                                       |
| PROC15 | Use as laboratory reagent                                                                                                                                            |
| PROC17 | Lubrication at high energy conditions in metal working operations                                                                                                    |
| PROC19 | Manual activities involving hand contact                                                                                                                             |
| PROC2  | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions                 |
| PROC21 | Low energy manipulation and handling of substances bound in/on materials or articles                                                                                 |
| PROC24 | High (mechanical) energy work-up of substances bound in /on materials and/or articles                                                                                |
| PROC3  | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
| PROC4  | Chemical production where opportunity for exposure arises                                                                                                            |
| PROC5  | Mixing or blending in batch processes                                                                                                                                |
| PROC6  | Calendering operations                                                                                                                                               |
| PROC7  | Industrial spraying                                                                                                                                                  |
| PROC8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              |
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  |
| PROC9  | Transfer of substance or preparation into small containers (dedicated filling line, including weighing)                                                              |
| SU0    | Other                                                                                                                                                                |
| SU10   | Formulation [mixing] of preparations and/or re-packaging (excluding alloys)                                                                                          |
| SU11   | Manufacture of rubber products                                                                                                                                       |
| SU12   | Manufacture of plastics products, including compounding and conversion                                                                                               |

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.

