

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

### 1.1. Product identifier

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Product form                  | : Substance (UVCB)                               |
| Trade name                    | : RADIACID 0960                                  |
| IUPAC name                    | : Fatty acids, C18-unsatd., dimers, hydrogenated |
| EC no.                        | : 500-231-1                                      |
| CAS No.                       | : 68783-41-5                                     |
| REACH registration No.        | : 01-2119493916-21                               |
| C&L notification reference no | : 02-2119692900-33-0000                          |

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

#### 1.2.1. Relevant identified uses

|                   |                  |
|-------------------|------------------|
| Main use category | : Industrial use |
|-------------------|------------------|

| Title                                                                                      | Life cycle stage | Use descriptors                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General overview of industrial uses of dimerized fatty acids consortium related substances | Industrial       | SU0, SU1, SU3, SU5, SU6b, SU8, SU9, SU10, SU11, SU12, SU17, SU18, SU19, SU23, PC19, PC20, PC21, PC36, PC37, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC12, PROC13, PROC14, PROC15, PROC16, PROC17, PROC19, PROC21, PROC24, ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8f, ERC10a, ERC10b, ERC11a |
| General overview of professional uses of dimerized fatty acids related substances          | Professional     | SU0, SU1, SU8, SU9, SU10, SU22, PC8, PC20, PC21, PC27, PC36, PC37, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC17, PROC19, PROC20, PROC21, ERC2, ERC4, ERC5, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b                                                                                             |
| General overview of consumer uses of dimerized fatty acids related substances              | Consumer         | SU21, PC1, PC3, PC4, PC8, PC9a, PC9b, PC9c, PC12, PC13, PC18, PC23, PC24, PC27, PC31, PC35, PC36, PC37, PC39, ERC2, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC11a                                                                                                                                                                                                       |

Full text of use descriptors: see section 16

#### 1.2.2. Uses advised against

No additional information available

### 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)  
+32 3 575 55 55 (worldwide); +1 888 765 6554 (USA tollfree)

| Country | Organisation/Company                                       | Address | Emergency number                                                                                                                            | Comment |
|---------|------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|
|         | World directory of poisons centres (Yellow Tox)<br>WHO-OMS | Website | <a href="http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/">http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/</a> |         |

## 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 : UVCB

| Name                                           | Product identifier                                                     | %   |
|------------------------------------------------|------------------------------------------------------------------------|-----|
| Fatty acids, C18-unsatd., dimers, hydrogenated | CAS No.: 68783-41-5<br>EC no.: 500-231-1<br>REACH-no: 01-2119493916-21 | 100 |

### 3.2. Mixtures

Not applicable

## 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 for 15 minutes. Consult an ophthalmologist if irritation persists. |
| First-aid measures after ingestion    | : Rinse mouth thoroughly with water. Call a poison center or a doctor 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. |

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

No supplementary information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

No additional information available

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

|                  |                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire hazard      | : DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Heating increases the 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.                      |

### 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. Caution : this product can cause the floor to be slippery. Wash contaminated clothing before reuse. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

No supplementary information available.

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

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

#### 6.4. Reference to other sections

No additional information available

### 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

|                              |                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 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          | : Suitable materials for containers. Aluminium. Glass. Stainless steel. Do not store in corrodable metal.                            |

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No additional information available

##### 8.2.2. Personal protection equipment

**Personal protective equipment:**

Gloves. Protective clothing. Safety glasses.

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



#### 8.2.2.1. Eye and face protection

No additional information available

#### 8.2.2.2. Skin protection

##### Other skin protection

##### Materials for protective clothing:

Good resistance: Nitrile rubber

#### 8.2.2.3. Respiratory protection

No additional information available

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

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

|                                                 |                                          |
|-------------------------------------------------|------------------------------------------|
| Physical state                                  | : Liquid                                 |
| Colour                                          | : Light yellow to dark yellow.           |
| Appearance (room temperature)                   | : Clear. Viscous.                        |
| Odour                                           | : Characteristic. Mild odor.             |
| Odour threshold                                 | : Not available                          |
| Melting point                                   | : No supplementary information available |
| Freezing point                                  | : < 20 °C                                |
| Boiling point                                   | : > 250 °C                               |
| HMIS Flammability                               | : Not available                          |
| Explosive properties                            | : Not explosive.                         |
| Oxidising properties                            | : Not oxidising.                         |
| Explosive limits                                | : Not available                          |
| Lower explosion limit                           | : Not available                          |
| Upper explosion limit                           | : Not available                          |
| Flash point                                     | : > 270 °C (ASTM D92)                    |
| Auto-ignition temperature                       | : > 300 °C                               |
| Decomposition temperature                       | : Not available                          |
| pH                                              | : < 7                                    |
| Viscosity, kinematic                            | : Not available                          |
| Viscosity, dynamic                              | : ca. 8500 cP @25°C (8000-9000)          |
| Solubility                                      | : Water: < 0.005 g/100ml (25°C)          |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                          |
| Partition coefficient n-octanol/water (Log Pow) | : > 5 (est.)                             |
| Vapour pressure                                 | : < 0.01 hPa (20°C)                      |
| Vapour pressure at 50 °C                        | : Not available                          |
| Density                                         | : 0.85 to 0.90                           |
| Relative density                                | : Not available                          |
| Relative vapour density at 20°C                 | : Not available                          |
| Particle characteristics                        | : Not applicable                         |

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

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

#### RADIACID 0960 (68783-41-5)

|                                   |                             |
|-----------------------------------|-----------------------------|
| LD50 oral rat                     | > 2000 mg/kg Non-toxic      |
| Skin corrosion/irritation         | : Not classified<br>pH: < 7 |
| Serious eye damage/irritation     | : Not classified<br>pH: < 7 |
| 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

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

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

### 11.2.2. Other information

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 bioaccumulation data available

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

#### RADIACID 0960 (68783-41-5)

|      |                                   |
|------|-----------------------------------|
| ThOD | 2.9 g O <sub>2</sub> /g substance |
|------|-----------------------------------|

### 12.3. Bioaccumulative potential

#### RADIACID 0960 (68783-41-5)

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

### 12.4. Mobility in soil

#### RADIACID 0960 (68783-41-5)

|                 |                     |
|-----------------|---------------------|
| Surface tension | ca. 0.03 N/m (20°C) |
|-----------------|---------------------|

### 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

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                           |                                                                                                   |
|-------------------------------------------|---------------------------------------------------------------------------------------------------|
| Disposal                                  | : No supplementary information available                                                          |
| Regional waste regulation                 | : No supplementary information available.                                                         |
| Ecological 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

### 14.1. UN number or ID number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

|                                  |                  |
|----------------------------------|------------------|
| <b>ADR</b>                       |                  |
| Transport hazard class(es) (ADR) | : Not applicable |

|                                   |     |
|-----------------------------------|-----|
| <b>IMDG</b>                       |     |
| Transport hazard class(es) (IMDG) | : - |

|                                   |                  |
|-----------------------------------|------------------|
| <b>IATA</b>                       |                  |
| Transport hazard class(es) (IATA) | : Not applicable |

|                                  |                  |
|----------------------------------|------------------|
| <b>ADN</b>                       |                  |
| Transport hazard class(es) (ADN) | : Not applicable |

|                                  |                  |
|----------------------------------|------------------|
| <b>RID</b>                       |                  |
| Transport hazard class(es) (RID) | : Not applicable |

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

#### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

#### 14.6. Special precautions for user

##### Overland transport

Transport regulations (ADR) : Not subject

##### Transport by sea

Transport regulations (IMDG) : Not subject

##### Air transport

No data available

##### 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

##### 15.1.1. 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 (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

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

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

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

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

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

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

#### 15.1.2. National regulations

|                          |                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------|
| Chemical inventories     | : Compliant with AIIC, DSL, EAEU, ECST, EU REACH, IECSC, KECL, NZIoC, PICCS, TSCA, VNCI |
| KKDIK number (Turkey)    | : 01-0000487639-83                                                                      |
| K-REACH (Korea)          | : preregistered                                                                         |
| UK-REACH (Great Britain) | : No DUIN submitted (max.1tpa)                                                          |

#### Germany

|                                            |                                                                                       |
|--------------------------------------------|---------------------------------------------------------------------------------------|
| Water hazard class (WGK)                   | : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 3604). |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)                    |

#### Netherlands

|                                                      |                                           |
|------------------------------------------------------|-------------------------------------------|
| ABM category                                         | : B(4) - 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

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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Chem. inventories legend | : AIIC = Australian Inventory of Industrial Chemicals<br>DSL = Canadian Domestic Substances List<br>EAEU = Eurasian Economic Union Unified list of chemicals<br>ECST = Existing Chemical Substances Inventory of Taiwan<br>EU REACH = European Union REACH Regulation 1907/2006<br>IECSC = Inventory of Existing Chemicals Substances in China<br>KECL = Korean Existing Chemical List<br>NZIoC = New Zealand Inventory of Chemicals<br>PICCS = Philippine Inventory of Chemicals and Chemical Substances<br>TSCA (Active) = USA Toxic Substances Control Act<br>VNCI = Vietnam National Chemicals Inventory |
| SDS changed sections     | : 11 - Toxicological information; 12 - Ecological information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SDS Reason for revision  | : No supplementary information available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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)               |

**Full text of use descriptors**

|       |                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------|
| 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                                                          |
| ERC6a | Use of intermediate                                                                                                    |
| ERC6b | Use of reactive processing aid at industrial site (no inclusion into or onto article)                                  |
| ERC6c | Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)                     |
| ERC6d | Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) |
| ERC7  | Use of functional fluid at industrial site                                                                             |
| 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)                             |
| ERC8e | Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)                                 |
| ERC8f | Widespread use leading to inclusion into/onto article (outdoor)                                                        |
| ERC9a | Widespread use of functional fluid (indoor)                                                                            |
| ERC9b | Widespread use of functional fluid (outdoor)                                                                           |
| PC1   | Adhesives, sealants                                                                                                    |
| PC12  | Fertilizers                                                                                                            |
| PC13  | Fuels                                                                                                                  |
| PC18  | Ink and Toners                                                                                                         |
| PC19  | Intermediate                                                                                                           |
| PC20  | Metal surface treatment products                                                                                       |
| PC21  | Laboratory chemicals                                                                                                   |
| PC23  | Leather treatment products                                                                                             |
| PC24  | Lubricants, greases, release products                                                                                  |
| PC27  | Plant protection products                                                                                              |
| PC3   | Air care products                                                                                                      |
| PC31  | Polishes and wax blends                                                                                                |
| PC35  | Washing and cleaning products                                                                                          |
| PC36  | Water softeners                                                                                                        |
| PC37  | Water treatment chemicals                                                                                              |
| PC39  | Cosmetics, personal care products                                                                                      |
| PC4   | Anti-Freeze and De-icing products                                                                                      |

**Full text of use descriptors**

|        |                                                                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PC8    | Biocidal products                                                                                                                                                    |
| PC9a   | Coatings and paints, thinners, paint removers                                                                                                                        |
| PC9b   | Fillers, putties, plasters, modelling clay                                                                                                                           |
| PC9c   | Finger paints                                                                                                                                                        |
| PROC10 | Roller application or brushing                                                                                                                                       |
| PROC11 | Non industrial spraying                                                                                                                                              |
| 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                                                                                                                                            |
| PROC16 | Use of fuels                                                                                                                                                         |
| 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                 |
| PROC20 | Use of functional fluids in small devices                                                                                                                            |
| 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                                                                                                                                                                |
| SU1    | Agriculture, forestry, fishery                                                                                                                                       |
| 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                                                                                               |
| SU17   | General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment                                                                                |
| SU18   | Manufacture of furniture                                                                                                                                             |
| SU19   | Building and construction work                                                                                                                                       |

### Full text of use descriptors

|      |                                                                                                  |
|------|--------------------------------------------------------------------------------------------------|
| SU21 | Consumer uses: Private households (= general public = consumers)                                 |
| SU22 | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| SU23 | Electricity, steam, gas water supply and sewage treatment                                        |
| SU3  | Industrial uses: Uses of substances as such or in preparations at industrial sites               |
| SU5  | Manufacture of textiles, leather, fur                                                            |
| SU6b | Manufacture of pulp, paper and paper products                                                    |
| SU8  | Manufacture of bulk, large scale chemicals (including petroleum products)                        |
| SU9  | Manufacture of fine chemicals                                                                    |

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.