

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

### 1.1. Product identifier

Product form	: Substance (UVCB)
Trade name	: RADIA 7104
IUPAC name	: Glycerides, mixed decanoyl and octanoyl
EC no.	: 277-452-2
CAS No.	: 73398-61-5
REACH registration No	: 01-2119492306-35
C&L notification reference no	: 02-2119692794-20-0000
Label name	: No supplementary information available

### 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 glycerol fatty esters	Industrial	SU3, PC1, PC8, PC9a, PC12, PC14, PC18, PC19, PC20, PC21, PC23, PC24, PC32, PC34, PC35, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC12, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC21, PROC24, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
General overview of professional uses of glycerol fatty esters	Professional	SU22, PC12, PC21, PC27, PC31, PC35, PC39, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC20, PROC21, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a, ERC11a
General overview of consumer uses of glycerol fatty esters	Consumer	SU21, PC1, PC3, PC4, PC8, PC9a, PC9b, PC9c, PC12, PC13, PC15, PC16, PC17, PC18, PC20, PC23, PC24, PC25, PC27, PC28, PC31, PC32, PC34, PC35, PC37, PC39, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a, ERC11a
General overview of manufacturing uses of glycerol fatty esters		SU3, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC21, ERC1
General overview of formulation uses of glycerol fatty esters		SU3, PC0, PC2, PC9a, PC12, PC18, PC20, PC23, PC24, PC28, PC32, PC34, PC39, PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC12, PROC13, PROC14, PROC15, PROC21, PROC28, ERC2, ERC3

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

9940 Ertvelde - Belgium

T +32 9 341 10 11 - F +32 9 341 10 00

[info@oleon.com](mailto:info@oleon.com) - [www.oleon.com](http://www.oleon.com)

E-mail address of competent person responsible for the SDS : [sds@oleon.com](mailto:sds@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	Official advisory body	Address	Emergency number	Comment
	World directory of poisons centres (Yellow Tox) 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

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : UVCB

Name	Product identifier	%
Glycerides, mixed decanoyl and octanoyl	(CAS No.) 73398-61-5 (EC no.) 277-452-2 (REACH-no) 01-2119492306-35	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	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse with water. 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 : Unlikely to cause harmful effects.

### 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. Adapt extinguishing media to the environment.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium.

### 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	: No direct explosion hazard.
Reactivity in case of fire	: On burning: release of (carbon monoxide - carbon dioxide).

### 5.3. Advice for firefighters

Other information : No supplementary information available.

## SECTION 6: Accidental release measures

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

General measures : Mark the danger area. Exposure to heat: have neighbourhood close doors and windows.  
Exposure to fire/heat: consider evacuation. Wash contaminated clothes.

#### 6.1.1. For non-emergency personnel

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

#### 6.1.2. For emergency responders

Protective equipment : Use protective measures listed in Section 8.

### 6.2. Environmental precautions

Prevent soil and water pollution.

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

Methods for cleaning up : Clean contaminated surfaces with an excess of water and soap solution. Take up liquid spill into inert absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone.

Other information : No supplementary information available.

### 6.4. Reference to other sections

Handle waste materials in accordance with the provisions of Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

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

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: heat sources.

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 : SPECIAL REQUIREMENTS: closing. correctly 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 protective equipment:

Gloves. Protective clothing. Safety glasses.

#### Materials for protective clothing:

GIVE GOOD RESISTANCE: nitrile rubber

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



## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Appearance (room temperature) : Liquid.

Colour : Colourless to yellow.

Odour : Almost odourless.

Odour threshold : No data available

pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No supplementary information available
Freezing point	: ca. -20 °C (-30/-10)
Boiling point	: > 250 °C
Flash point	: > 200 °C (ASTM D92)
Auto-ignition temperature	: > 300 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No supplementary information available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ca. 946.4 kg/m <sup>3</sup> (20°C) ca. 934.1 kg/m <sup>3</sup> (40°C) ca. 897.0 kg/m <sup>3</sup> (100°C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: > 5
Viscosity, kinematic	: ca. 14 mm <sup>2</sup> /s @40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

## 9.2. Other information

VOC content	: < 0.1 % (1999/13/EC; 2004/42/EC; 2010/75/EU)
Other properties	: Oily. Soluble in oils/fats. soluble in most organic solvents. Insoluble 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 toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

### RADIA 7104 (73398-61-5)

LD50 oral rat	> 5000 mg/kg Non-toxic
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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 7104 (73398-61-5)**

Viscosity, kinematic	ca. 14 mm <sup>2</sup> /s @40°C
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**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - general	: According to literature: no environmental hazard.
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**

**RADIA 7104 (73398-61-5)**

Persistence and degradability	Readily biodegradable in water.
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**12.3. Bioaccumulative potential**

**RADIA 7104 (73398-61-5)**

Partition coefficient n-octanol/water (Log Pow)	> 5
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**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional 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 legislation (waste)	: No supplementary information available.
Ecology - waste materials	: Do not discharge into drains or the environment. Remove to an authorized waste treatment plant.
European List of Waste (LoW) code	: 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</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**14.3. Transport hazard class(es)**

Not applicable	-	Not applicable	Not applicable	Not applicable
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**14.4. Packing group**

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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**14.5. Environmental hazards**

Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
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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**

Transport regulations (IATA) : Not subject

**Inland waterway transport**

No data available

**Rail transport**

Transport regulations (RID) : Not subject

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

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**

No REACH Annex XVII restrictions

RADIA 7104 is not on the REACH Candidate List

RADIA 7104 is not on the REACH Annex XIV List

RADIA 7104 is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

RADIA 7104 is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : < 0.1 % (1999/13/EC; 2004/42/EC; 2010/75/EU)

**15.1.2. National regulations**

Related CAS RN : 65381-09-1

Chemical inventories : Compliant with AICS, DSL, EAEU, ECST, ENCS, EU REACH, IECSC, INSQ, KECL, NZIoC, PICCS, TECl, TSCA, VNCI

KKDIK number (Turkey) : 05-0000212156-97-0000

K-REACH (Korea) : preregistered

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**

Regulatory reference : WGK awg, Hazardous to water in general (Classification according to AwSV; ID No. 10019)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands**

ABM category	: A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

**Switzerland**

Storage class (LK)	: LK 10/12 - Liquids
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**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.
SDS changed sections	: 15 - Regulatory information
SDS Reason for revision	: No supplementary information available
Chem. inventories legend	: AICS = Australian Inventory of Chemical Substances DSL = Canadian Domestic Substances List EAEU = Eurasian Economic Union Unified list of chemicals ECST = Existing Chemical Substances Inventory of Taiwan ENCS = Japanese Existing and New Chemicals Substances List EU REACH = European Union REACH Regulation 1907/2006 IECSC = Inventory of Existing Chemicals Substances in China INSQ = Mexico National Inventory of Chemical Substance KECL = Korean Existing Chemical List NZIoC = New Zealand Inventory of Chemicals PICCS = Philippine Inventory of Chemicals and Chemical Substances TECI = Thailand FDA Existing Chemicals Inventory TSCA = USA Toxic Substances Control Act VNCI = Vietnam National Chemicals Inventory
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)
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
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)
PC0	Other
PC1	Adhesives, sealants
PC12	Fertilizers
PC13	Fuels
PC14	Metal surface treatment products
PC15	Non-metal-surface treatment products
PC16	Heat Transfer Fluids
PC17	Hydraulic Fluids
PC18	Ink and Toners
PC19	Intermediate
PC2	Adsorbents
PC20	Metal surface treatment products
PC21	Laboratory chemicals
PC23	Leather treatment products
PC24	Lubricants, greases, release products
PC25	Metal working fluids
PC27	Plant protection products
PC28	Perfumes, fragrances
PC3	Air care products
PC31	Polishes and wax blends
PC32	Polymer preparations and compounds
PC34	Textile dyes, and impregnating products
PC35	Washing and cleaning products
PC37	Water treatment chemicals
PC39	Cosmetics, personal care products
PC4	Anti-Freeze and De-icing products
PC8	Biocidal products
PC9a	Coatings and paints, thinners, paint removers
PC9b	Fillers, putties, plasters, modelling clay
PC9c	Finger paints
PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
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
PROC18	General greasing /lubrication at high kinetic energy conditions
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
PROC28	Manual maintenance (cleaning and repair) of machinery
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)
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3	Industrial uses: Uses of substances as such or in preparations* at industrial sites

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.*