

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

### 1.1. Product identifier

Product form : Mixture  
 Generic name : RADIAGREEN EMESALT  
 REACH number : all the ingredients of this product in the scope of Regulation 1907/2006/EC (REACH), if not exempted, have been (pre-)registered.  
 C&L notification reference no : all the ingredients of this product in the scope of Regulation 1272/2008/EC (CLP), if not exempted, have been notified to the C&L Inventory.

### 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

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

### 1.4. Emergency telephone number

Emergency number : 24/7 EMERGENCYNUMBER (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]

Serious eye damage/eye irritation Not classified Conclusive but not sufficient for classification On basis of test data

Full text of hazard classes and H-statements: see section 16

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

Not classified as dangerous according to the criteria of Australian NOHSC (not hazardous; not dangerous goods). According to ABNT NBR 14725-2, no labeling obligation.

### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fatty esters (Constituent)		> 60	Not classified
Specialities (Constituent)		< 40	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 the victim into 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. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water. Call Poison Information Centre ( <a href="http://www.who.int/ipcs/poisons/centre/directory/en">www.who.int/ipcs/poisons/centre/directory/en</a> ). Consult a doctor/medical service 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 waterjet 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

- Precautions for safe handling : Smoking, eating and drinking should be prohibited in areas of storage and use.
- Handling temperature :  $\geq 10$  °C above melting point
- Hygiene measures : Wash hands before break and at end of works. Good standard of personal hygiene.

### 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



- Other information : NOHSC Exposure Standards: no exposure standard applicable according to HSIS.

## SECTION 9: Physical and chemical properties

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

- Physical state : Liquid
- Appearance (room temperature) : Liquid.
- Colour : Yellow to amber.
- Odour : Characteristic odour. Sweet odour.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point :  $< -10$  °C
- Freezing point : No data available
- Boiling point :  $> 250$  °C
- Flash point :  $> 200$  °C (ASTM D92)

Auto-ignition temperature	: > 300 °C
Decomposition temperature	: > Flash point
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. 1002,4 kg/m <sup>3</sup> (20°C) ca. 987,5 kg/m <sup>3</sup> (40°C) ca. 942,6 kg/m <sup>3</sup> (1000°C)
Solubility	: Insoluble in water.
Log Pow	: > 5
Viscosity, kinematic	: ca. 120 mm <sup>2</sup> /s (40°C)
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 : Not classified

<b>RADIAGREEN EME SALT</b>	
LD50 oral rat	> 5000 mg/kg Non -toxic
<b>Fatty esters</b>	
LD50 oral rat	> 5000 mg/kg Non -toxic
<b>Specialities</b>	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

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

**RADIAGREEN EME SALT**

Viscosity, kinematic	ca. 120 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

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

**RADIAGREEN EME SALT**

Log Pow	> 5
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**Fatty esters**

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 / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
No dangerous good in sense of transport regulations (including Australian DG Code)	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>Transport document description</b>				
UN No dangerous good in				

ADR	IMDG	IATA	ADN	RID
sense of transport regulations (including Australian DG Code)				
<b>14.3. Transport hazard class(es)</b>				
Not applicable	-	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
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
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 73/78 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**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : < 0,1 % (1999/13/EC; 2004/42/EC; 2010/75/EU)

**15.1.2. National regulations**

Chemical inventories : Listed on AICS, DSL, ECST, KECL, NZIoC, TSCA, EC inventories

Listed on ECST (Existing Chemical Substances Inventory of Taiwan)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Korean ECL (Existing Chemicals List)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Germany**

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands**

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
 SZW-lijst van mutagene stoffen : None of the components are listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

**Denmark**

Danish product registration number : 2319737

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Training advice : No supplementary information available.  
 SDS changed sections : 5 - Firefighting measures;6 - Accidental release measures;16 - Other information;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  
 ECST = Existing Chemical Substances Inventory of Taiwan  
 KECL = Korean Existing Chemical List  
 NZIoC = New Zealand Inventory of Chemicals  
 TSCA = USA Toxic Substances Control Act  
 EC inventories = European Community inventories of chemicals (EINECS/ELINCS/NLP/REACH)  
 Other information : No supplementary information available.

Full text of H- and EUH-statements:

Eye Dam./Irrit. Not classified	Serious eye damage/eye irritation Not classified
EUH210	Safety data sheet available on request

SDS 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*