

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

1.1. Product identifier

Product form : Mixture
 Generic name : RADIAGREEN EME SALT
 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
 Industrial/Professional use spec. : wide dispersive use
 Industrial category : IC2 - Chemical industry: basic chemicals, IC3 - Chemical industry: chemicals used in synthesis

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 - www.oleon.com

1.4. Emergency telephone number

Emergency number : +32 3 575 55 55
 24/7 EMERGENCY NUMBER (SGS ERS; Oleon contract nr 76858)

Country	Official advisory body	Address	Emergency number
AUSTRALIA	Poisons Information Centre	PO Box 11 2606 ACT WODEN	13 11 26
GREECE	Poisons Information Centre Children's Hospital "Agliaia, Kyriakou"	11527 Athens	+30 10 779 3777
ICELAND	Iceland Poisons Information Centre Landspítali University Hospital	Fossvogi 108 Reykjavik	+354 525 111 +354 543 2222
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 8379964
ISRAEL	Israel Poisons Information Centre Rambam Medical Centre	PO Box 9602 31096 Haifa	+972 4 854 1900
UNITED KINGDOM	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0870 600 6266 (UK only),
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0870 600 6266 (UK only)
UNITED KINGDOM	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0870 600 6266 (UK only)
UNITED KINGDOM	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0870 600 6266 (UK only)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
UNITED KINGDOM	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0870 600 6266 (UK only)
WORLDWIDE	World directory of poisons centres (Yellow Tox) WHO-OMS	Website	http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

Adverse physicochemical, human health and environmental effects

Not classified as dangerous according to the criteria of Australian NOHSC (not hazardous; not dangerous goods).

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. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Fatty esters (Constituent)		> 60	Not classified
Specialities (Constituent)		< 40	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fatty esters (Constituent)		> 60	Not classified
Specialities (Constituent)		< 40	Not classified

Full text of R- and H-phrases: see section 16

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 (www.who.int/ipcs/poisons/centre/directory/en). Consult a doctor/medical service if you feel unwell.

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

- Symptoms/injuries : 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 : 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 : ≥ 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

Prohibitions 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.

pH : No data available

Melting point : < -10 °C

Boiling point : > 250 °C

Flash point : > 200 °C (ASTM D92)

Auto-ignition temperature : > 300 °C

Decomposition temperature	: > Flash point
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 ³ (20°C) ca. 987,5 kg/m ³ (40°C) ca. 942,6 kg/m ³ (1000°C)
Solubility	: Insoluble in water.
Log Pow	: > 5
Viscosity, kinematic	: ca. 120 mm ² /s (40°C)

9.2. Other information

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

RADIAGREEN EME SALT	
LD50 oral rat	> 5000 mg/kg Non-toxic
Fatty esters	
LD50 oral rat	> 5000 mg/kg Non-toxic
Specialities	
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
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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

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 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

14.1. UN number

UN-No. (ADR) : No dangerous good in sense of transport regulations (including Australian DG Code)

14.2. UN proper shipping name

Transport document description (ADR) : UN No dangerous good in sense of transport regulations (including Australian DG Code)

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Transport regulations (ADR) : Not subject

Transport regulations (RID) : Not subject

State during transport (ADR-RID) : Rail and road transport: not subject to ADR-RID

14.6.2. Transport by sea

Transport regulations (IMDG) : Not subject

14.6.3. Air transport

Transport regulations (IATA) : Not subject

Instruction "cargo" (ICAO) : Not applicable

Instruction "passenger" (ICAO) : Not applicable

Instruction "passenger" - Limited quantities (ICAO) : Not applicable

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

No REACH Annex XVII restrictions

Contains no REACH candidate substance

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

15.1.2. National regulations

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

Danish product registration number : 2319737

Regional legislation : In accordance with Dutch Mining Regulation 9.2 and ARBO regulation Chapter 4. None of the ingredients of this product is listed on the Australian Poisons Standard (Standard for the Uniform Scheduling of Medicines and Poisons - SUSMP).

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Chem. inventories legend : AICS = Australian Inventory of Chemical Substances
DSL = Canadian Domestic Substances List
ECL = Korean Existing Chemical List
ECST = Existing Chemical Substances Inventory of Taiwan
NZIoC = New Zealand Inventory of Chemicals
TSCA = USA Toxic Substances Control Act
EC inventories = European Community inventories of chemicals (EINECS/ELINCS/NLP/REACH)

Indication of changes:

SDS changed sections : 16 - Other information; 9 - Physical and chemical properties

SDS Reason for revision : No supplementary information available

Training advice : No supplementary information available.

Other information : No supplementary information available.

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