RADIAMULS DATEM 2004K

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
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Issue date: 22/04/2026 Revision date: 21/06/2024 Supersedes version of: 20/07/2022 Version: 01.14

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

1.1. Product identifier

Product form	:	Substance (UVCB)
Trade name	:	RADIAMULS DATEM 2004K
IUPAC name	:	Glycerides, C8-21 and C8-21-unsatd. mono- and di-, 2-(acetyloxy)-3-hydroxybutanedioates 2,3-bis(acetyloxy)butanedioates
EC no.	:	309-180-8
CAS No.	:	100085-39-0
REACH registration No.	:	1907/2006/EC Article 2.5

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

Relevant identified uses

Main use category	:	Industrial use
Use of the substance/mixture	:	Fit for use in foodstuffs

1.3. Details of the supplier of the safety data sheet

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Assenedestraat 2
BE 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	:	24/7 EMERGENCY NUMBER (SGS ERS; Oleon contract nr 76858) +32 3 575 55 55 (worldwide); +1 888 765 6554 (USA tollfree)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

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

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : UVCB

Name	Product identifier	%
Glycerides, C8-21 and C8-21-unsatd. mono- and di-, 2-(acetyloxy)-3-hydroxybutanedioates 2,3-bis(acetyloxy)butanedioates	CAS No.: 100085-39-0 EC no.: 309-180-8 REACH-no: 1907/2006/EC Article 2.5	100

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove victim to fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Wash off immediately with soap and plenty of water. If irritation persists, consult a doctor.

First-aid measures after eye contact : Rinse immediately with plenty of water. Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion : Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell. Call Poison Information Centre (www.who.int/ipcs/poisons/centre/directory/en).

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

Symptoms/effects : No supplementary information available.

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

No supplementary information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : AFFF foam. BC-powder. Carbon dioxide. Dry sand. Dry chemical powder. Use the extinguishing media recommended for the burning materials and fire situation.

Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Not easily combustible. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.

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

Reactivity in case of fire : On burning: release of carbon monoxide/carbon dioxide.

5.3. Advice for firefighters

Other information : No supplementary information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

For non-emergency personnel

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

For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

For containment : Knock down/dilute dust cloud with water spray.

Methods for cleaning up : Carefully collect the spill/leftovers. If melted: allow liquid to solidify before taking it up. Scoop solid spill into closing containers or synthetic bags. Clean contaminated surfaces with a soap solution. Flush/dilute with water.

Other information : No supplementary information available.

6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling temperature : No supplementary information available

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place.

Storage temperature : ≤ 15 °C (above this temperature, enhanced risk of caking)

Information on mixed storage : KEEP AWAY FROM: Acids. strong acids. bases. strong bases.

Storage area : Store at a temperature <18°C (above 18°C enhanced caking may occur). Store in a well-ventilated place. Meet the legal requirements.

Special rules on packaging : Store in a closed container. Suitably labelled. Meet the legal requirements.

Packaging materials : No supplementary information available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

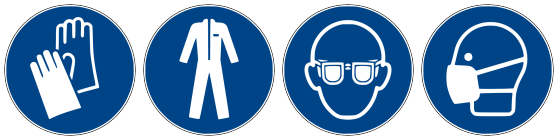
8.2. Exposure controls

Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing. In case of dust production: protective goggles. Dust production: dust mask with filter type P2.

Personal protective equipment symbol(s):



Skin protection

Other skin protection

Materials for protective clothing:

Good resistance: Nitrile rubber

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	White to slightly yellow.
Appearance (room temperature)	:	Solid in various shapes.
Odour	:	Characteristic. Almost odourless.
Odour threshold	:	Not available
Melting point	:	ca. 55 °C
Freezing point	:	Not available
Boiling point	:	> 250 °C
HMIS Flammability	:	Not available
Explosive properties	:	Predicted negative.
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	> 200 °C (ASTM D92)
Auto-ignition temperature	:	> 300 °C
Decomposition temperature	:	Flash point
pH	:	5 – 8
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Solubility	:	Water: Dispersible in hot water
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	> 5 (estimated value)
Vapour pressure	:	< 0.01 hPa (20°C)
Vapour pressure at 50 °C	:	Not available
Density	:	≈ 0.95 g/cm³
Relative density	:	Not available
Relative vapour density at 20°C	:	Not applicable
Particle size	:	Not available

9.2. Other information

Other safety characteristics

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

RADIAMULS DATEM 2004K (100085-39-0)	
LD50 oral rat	> 5000 mg/kg Non-toxic

Skin corrosion/irritation : Not classified
pH: 5 – 8
Serious eye damage/irritation : Not classified
pH: 5 – 8
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

Endocrine disrupting properties

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Ecology - air : No supplementary information available.

Ecology - water : No data available concerning bioaccumulation

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

RADIAMULS DATEM 2004K (100085-39-0)	
LC50 - Fish [1]	> 100 mg/l (96 hours)

12.2. Persistence and degradability

RADIAMULS DATEM 2004K (100085-39-0)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

RADIAMULS DATEM 2004K (100085-39-0)	
Partition coefficient n-octanol/water (Log Pow)	> 5 (estimated value)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

RADIAMULS DATEM 2004K (100085-39-0)	
Other information	No supplementary information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal : Scoop solid spill into closing containers,Powdered: do not use compressed air for pumping over spills,Clean contaminated surfaces with a soap solution

Regional waste regulation : No supplementary information available.

Ecological waste information : Do not discharge into drains or the environment. Remove to an authorized waste treatment plant.

European List of Waste (LoW, EC 2000/532) : No supplementary information available

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	-	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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
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. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

VOC Directive (2004/42)

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

Explosives Precursors Regulation (EU 2019/1148)

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

Drug Precursors Regulation (EC 273/2004)

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

National regulations

Chemical inventories : Compliant with AICIS, DSL, EU REACh, IECSC, NCI, NZIoC, TCSI, TR EAEU
KKDIK number (Turkey) : not preregistered
K-REACh (Korea) : preregistered
UK-REACh (Great Britain) : No DUIN submitted (max.1tpa)
Swiss ChemO (SR 813.11) : This substance is not subject to the obligation to register pursuant to art.69 of of the Chemicals Ordinance (ChemO)

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV).
VOC content : < 1 % (1999/13/EC; 2004/42/EC; 2010/75/EU; SR 814.018)

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
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

No additional information available

SECTION 16: Other information

Training advice	:	No supplementary information available.
Chemical inventories legend	:	AICIS = Australian Inventory of Industrial Chemicals DSL = Canadian Domestic Sustances List EU REACh = European Union REACH Regulation 1907/2006 IECSC = Inventory of Existing Chemicals Substances in China NCI = Vietnam National Chemical Inventory NZIoC = New Zealand Inventory of Chemicals TCSI = Taiwan Chemical Substance Inventory TR EAEU = Eurasian Economic Union Unified list of chemicals
SDS changed sections	:	11 - Toxicological information;12 - Ecological information
SDS Reason for revision	:	No supplementary information available
Other information	:	No supplementary information available.

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.