

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Substance
Trade name : SOFTIGEN® 701 ECO
Chemical name : Glyceryl Ricinoleate
EC-No. : 270-616-4
CAS-No. : 68459-67-6
REACH registration No : 01-2120755779-33-0000

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture : Cosmetic ingredient
Industrial use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet**Manufacturer/Supplier**

IOI Oleo GmbH
Arthur-Imhausen-Str. 92
D-58453 Witten - Germany
T +49 40 280031-0

Email competent person

MSDS@ioioleo.de

1.4. Emergency telephone number

Emergency number : National Health Service (NHS)
24 hour national number consumer
England and Scotland: 111
Wales: 0845 46 47
Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

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 not contributing to the classification : If spilled, may cause the floor to be slippery.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients**3.1. Substances**

Name	Product identifier	%
Glyceryl Ricinoleate	(CAS-No.) 68459-67-6 (EC-No.) 270-616-4 (REACH-no) 01-2120755779-33-0000	-

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according to Regulation (EC) No. 1907/2006 (REACH)

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In case of doubt or persistent symptoms, consult always a physician.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.
First-aid measures after skin contact	: Wash skin with plenty of water. Remove dirty clothes. Get medical advice if skin irritation persists.
First-aid measures after eye contact	: Rinse thoroughly and plentifully with water, also under the eyelids. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth. If symptoms persist call a doctor. Do not give an unconscious person anything to drink.

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

Symptoms/effects : No additional information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Water.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Protection during firefighting	: Self-contained breathing apparatus.
Other information	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dispose of in accordance with relevant local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spills of this product present a serious slipping hazard.

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

6.1.2. For emergency responders

Protective equipment : Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid sub-soil penetration.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material, e.g.: sand, saw dust.
Other information	: Shovel into suitable and closed container for disposal.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Wear personal protective equipment. Keep away from sources of ignition - No smoking.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Store tightly closed in a dry and cool place.
Information about storage in one common storage facility	: Keep away from food, drink and animal feeding stuffs.

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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

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

In case of repeated or prolonged contact wear gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,35	No additional information available	EN 374
Chemically resistant protective gloves	Butyl rubber	6 (> 480 minutes)	0,5	No additional information available	EN 374

Eye protection:

Chemical goggles. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Not necessary with sufficient ventilation. Dust production: dust mask with filter type P2. EN 143.

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Remove soiled clothing promptly. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Colour	: light yellow.
Odour	: No data available
Odour threshold	: Not applicable
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 18 - 30 °C (OECD 102 method)
Freezing point	: No data available
Boiling point	: > 300 °C
Flash point	: 227 °C Test method EU A.9
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 0.98 g/cm ³ (30 °C)
Solubility	: Water: Not miscible
Log Pow	: > 4.5 Quantitative structure-activity relationship (QSAR)

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Viscosity, kinematic	: No data available
Viscosity, dynamic	: ≈ 600 mPa.s (30°C)
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

Other properties : No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

No decomposition if stored normally. To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Overheating. Protect from light.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Glyceryl Ricinoleate (68459-67-6)	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Skin irritation test (rabbit): no irritation (OECD 404 method)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Skin irritation test (rabbit): no irritation (OECD 405 method)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: No sensitizing reaction was observed for guinea pigs (OECD 406 method)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Mutagenicity (mammalian cell test): chromosomes aberration negative
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

Glyceryl Ricinoleate (68459-67-6)	
Viscosity, kinematic	≈ 612 mm ² /s

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SECTION 12: Ecological information

12.1. Toxicity

- Ecology - water : Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.
- Acute aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)
- Chronic aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)

Glyceryl Ricinoleate (68459-67-6)	
EC50 Daphnia 1	> 0.57 mg/l (48 h; Daphnia magna; >Water solubility)
ErC50 (algae)	> 4.4 mg/l (72 h; Desmodesmus subspicatus; >Water solubility)
NOEC chronic fish	> 2.3 mg/l (28 d; Oncorhynchus mykiss (Rainbow trout); >Water solubility)
NOEC chronic crustacea	2.5 mg/l (21 d; Daphnia magna; >Water solubility)
NOEC chronic algae	>= 4.4 mg/l (72 h; Desmodesmus subspicatus; >Water solubility)
LC0, Leuciscus idus (golden orfe)	> 0,04 mg/l (96 Hours, (> Water solubility))

12.2. Persistence and degradability

Glyceryl Ricinoleate (68459-67-6)	
Persistence and degradability	Biodegradable.
Biodegradation	> 70 % (28 d; (OECD 302C method))

12.3. Bioaccumulative potential

Glyceryl Ricinoleate (68459-67-6)	
Log Pow	> 4.5 Quantitative structure-activity relationship (QSAR)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Glyceryl Ricinoleate (68459-67-6)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Disposal must be done according to official regulations.
- Product/Packaging disposal recommendations : Do not re-use empty containers without proper cleaning or reconditioning.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

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- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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

Glycerol Ricinoleate is not on the REACH Candidate List

Glycerol Ricinoleate is not on the REACH Annex XIV List

Other information, restriction and prohibition regulations : A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

General revision.

Section	Changed item	Change	Comments
1.1	REACH registration No	Added	
9.1	Physical and chemical properties	Modified	

Abbreviations and acronyms:

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
CAS	Chemical Abstract Service
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration

Data sources : Information provided by the manufacturer. ECHA (European Chemicals Agency).

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KFT SDS EU 06

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