

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

Product form	: Substance
Trade name	: WITARIX® MCT
Chemical name	: Glycerides, mixed decanoyl and octanoyl
EC-No.	: 277-452-2
CAS-No.	: 73398-61-5
REACH registration No	: 01-2119492306-35-0001

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	: Raw material Pharmaceutical industry Cosmetic products Manufacturing of food
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1.2.2. Uses advised against

No additional information available

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

IOI Oleo GmbH
Zur Hafenspitze 15
D-19322 Wittenberge
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.
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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

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	%
Glycerides, mixed decanoyl and octanoyl	(CAS-No.) 73398-61-5 (EC-No.) 277-452-2 (REACH-no) 01-2119492306-35-0001	-

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Comments : INCI Name
Caprylic/Capric-Triglycerides

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If symptoms persist, call a physician. If medical advice is needed, have product container or label at hand.

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. 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. Do not give an unconscious person anything to drink. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Spilled material may present a slipping hazard. 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 : Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

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

Emergency procedures : Ventilate spillage area.

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. Clean using water and a detergent.

Other information : Shovel into suitable and closed container for disposal. Disposal must be done according to official regulations.

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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with eyes.
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. Protect from light.
Information about storage in one common storage facility	: Keep away from food, drink and animal feeding stuffs. Keep away from strong oxidizers.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glycerides, mixed decanoyl and octanoyl (73398-61-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	25.21 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	177.79 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	12.61 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43.84 mg/m ³
Long-term - systemic effects, dermal	12.61 mg/kg bodyweight/day
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.03 g/kg

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. Nitrile rubber. 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

Eye protection:

Chemical goggles. EN 166

Skin and body protection:

Wear suitable protective clothing. EN 340. EN 13034. EN 14605

Respiratory protection:

No respiratory protection needed under normal use conditions. Accidental release measures. Breathing apparatus with filter. EN 143. Filter A (colour code: brown). A2-P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

Environmental exposure controls:

Avoid release to the environment.

Other information:

Wash hands before breaks and after work.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: 0 - 10 °C
Boiling point	: No data available
Flash point	: ≈ 250 °C (closed cup)
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: < 0.01 Pa (20°C)
Relative vapour density at 20 °C	: No data available
Relative density	: 0.93 - 0.96
Density	: 0.94 g/cm ³ (20°C)
Solubility	: Water: Insoluble
Log Pow	: 8.2 - 10.9 Quantitative structure-activity relationship (QSAR)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 25 - 33 mPa.s (20°C)
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Protect from light.

10.5. Incompatible materials

Strong oxidizing agent.

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)

Glycerides, mixed decanoyl and octanoyl (73398-61-5)

LD50 oral	> 5000 mg/kg (mouse; eq. (OECD 401 method))
LD50 dermal rat	> 2000 mg/kg (79/831/EWG, Annex V, Part B; Read-across: CAS 91845-19-1)

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LC50 inhalation rat (mg/l)	> 1.86 mg/l (6h; spray; eq. (OECD 403 method); Maximum concentration)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: In animal experiments (rabbit): no irritant effect EPA OPP 81-5
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: In animal experiments (rabbit): no irritant effect EPA OPP 81-4
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) Read-across
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
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)

Glycerides, mixed decanoyl and octanoyl (73398-61-5)

NOAEL (oral, rat, 90 days)	5000 mg/kg bodyweight/day ((OECD 408 method); Read-across: CAS 8001-79-4)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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)

Glycerides, mixed decanoyl and octanoyl (73398-61-5)

EC50 Daphnia 1	> 100 mg/l (48 h; Daphnia magna)
ErC50 (algae)	> 0.449 mg/l (72 h; Desmodesmus subspicatus; EU Method C.3)
NOEC chronic crustacea	>= 0.01 mg/l (21 d; Daphnia magna; (OECD 211 method); Read-across CAS 65381-09-1)
NOEC chronic algae	>= 0.449 mg/l (72 h; Desmodesmus subspicatus; EU Method C.3)

12.2. Persistence and degradability

Glycerides, mixed decanoyl and octanoyl (73398-61-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % (28 d; ISO 10708)

12.3. Bioaccumulative potential

Glycerides, mixed decanoyl and octanoyl (73398-61-5)	
Log Pow	8.2 - 10.9 Quantitative structure-activity relationship (QSAR)
Bioaccumulative potential	Potentially bioaccumulable.

12.4. Mobility in soil

Glycerides, mixed decanoyl and octanoyl (73398-61-5)	
Log Koc	> 4 (Calculation method)
Ecology - soil	Adsorbs into the soil.

12.5. Results of PBT and vPvB assessment

Glycerides, mixed decanoyl and octanoyl (73398-61-5)	
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	

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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

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

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

IBC product name

: Palm kernel oil

Ship type

: Type 2

Pollution category

: Y

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

Glycerides, mixed decanoyl and octanoyl is not on the REACH Candidate List

Glycerides, mixed decanoyl and octanoyl 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.

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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
1.4	Emergency number	Modified	
4.1	First aid measures	Modified	
8.1	PNEC oral (secondary poisoning)	Added	
8.2	Personal protective equipment	Added	
9.1	Physical and chemical properties	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Added	

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS	Chemical Abstract Service
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent Bioaccumulative Toxic
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Data sources : IUCLID-Dossier from ECHA. MSDS of the supplier.

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Other information : Version/s 4.00 is/are not available in this language.

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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