

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

Trade name : MIGLYOL® 840  
Chemical name : decanoic acid, mixed diesters with octanoic acid and propylene glycol  
EC-No. : 271-516-3  
CAS-No. : 68583-51-7  
REACH registration No : 01-2119979057-26-0003

**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  
Lubricants, greases, release products

**1.2.2. Uses advised against**

Restrictions on use : None

**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**

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
decanoic acid, mixed diesters with octanoic acid and propylene glycol	(CAS-No.) 68583-51-7 (EC-No.) 271-516-3 (REACH-no) 01-2119979057-26-0003	-	Not classified

### 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 : Remove dirty clothes. Get medical advice if skin irritation persists. Wash skin with plenty of water.
- First-aid measures after eye contact : Contact lenses should be removed. Consult an ophthalmologist if irritation persists. Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Rinse mouth. Drink plenty of water. Do not induce vomiting. Call a poison center or a doctor 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 : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Strong water jet.

### 5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. irritating vapours.

### 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 : Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate air ventilation. Avoid contact with skin, eyes and clothing. Remove ignition sources.

#### 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 : Do not attempt to take action without suitable protective equipment. Wear personal protective clothing (see chapter 8). For further information refer to section 8: "Exposure controls/personal protection".

### 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 sand, saw dust, kieselguhr. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

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

### 6.4. Reference to other sections

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

## 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 skin, eyes and clothing. 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 tightly closed in a dry and cool place. Store in a well-ventilated place.

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

### 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:

Chemically resistant protective gloves. EN 374. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. 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

#### Eye protection:

Sealed safety goggles. EN 166

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Filter A (colour code: brown). Filter: A/P1.

#### 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. Apply emollient cream. Keep away from food, drink and animal feeding stuffs.

## 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 : Not applicable  
pH : Not determined  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : < -40 °C (1013 hPa; ASTM E 737-76)  
Freezing point : No data available  
Boiling point : 342 °C (1013 hPa; ASTM E 737-76)  
Flash point : 185 °C (1013 hPa; AOCS Tn 1a-64)

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Auto-ignition temperature	: 360 °C (1035-1040 hPa; EU Method A.15)
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: < 0.001 Pa (20°C; Quantitative structure-activity relationship (QSAR))
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.92 g/cm <sup>3</sup> (20°C; DIN 51757)
Solubility	: Water: < 0.05 mg/l (20°C; pH 5,6-7,4; EU Method A.6)
Log Pow	: 5.21 (OECD 123 method)
Viscosity, kinematic	: 6.2 mm <sup>2</sup> /s (40°C; ISO 3104)
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available.

### 10.2. Chemical stability

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

No additional information available.

### 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)

decanoic acid, mixed diesters with octanoic acid and propylene glycol (68583-51-7)	
LD50 oral rat	> 2000 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (Read-across: CAS 151661-88-0; EU Method B.3)
LC50 inhalation rat (mg/l)	> 2.916 mg/l (6h; spray; (OECD 403 method))

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not determined
Additional information	: (OECD 404 method) rabbit
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not determined
Additional information	: (OECD 405 method) rabbit
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Read-across (OECD 406 method) Guinea pig
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)

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Additional information	: Ames-test: negative (OECD 471 method) Mutagenicity (mammalian cell test): chromosomes aberration negative (OECD 473 method) Mutagenicity (mammalian cell test): micronucleus negative (OECD 474 method)
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)

<b>decanoic acid, mixed diesters with octanoic acid and propylene glycol (68583-51-7)</b>	
NOAEL (oral, rat, 90 days)	>= 1000 mg/kg bodyweight/day (OECD 408 method)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
<b>decanoic acid, mixed diesters with octanoic acid and propylene glycol (68583-51-7)</b>	
Viscosity, kinematic	6.2 mm <sup>2</sup> /s (40°C; ISO 3104)

## SECTION 12: Ecological information

### 12.1. Toxicity

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)

<b>decanoic acid, mixed diesters with octanoic acid and propylene glycol (68583-51-7)</b>	
EC50 Daphnia 1	> 2.4 mg/l (48h; Daphnia Magna; EU Method C.2)
NOEC chronic crustacea	>= 0.02 mg/l (21d; Daphnia Magna; Read-across: CAS 853947-59-8; (OECD 211 method))
EC10, activated sludge, domestic	>1099 mg/l (3h, EU Method C.11, Read-across: CAS 853947-59-8)

### 12.2. Persistence and degradability

<b>decanoic acid, mixed diesters with octanoic acid and propylene glycol (68583-51-7)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	82 % (28d; EU Method C.4-C)

### 12.3. Bioaccumulative potential

<b>decanoic acid, mixed diesters with octanoic acid and propylene glycol (68583-51-7)</b>	
Bioconcentration factor (BCF REACH)	< 17
Log Pow	5.21 (OECD 123 method)
Bioaccumulative potential	Bioaccumulation unlikely.

### 12.4. Mobility in soil

<b>decanoic acid, mixed diesters with octanoic acid and propylene glycol (68583-51-7)</b>	
Log Koc	4.511 (Quantitative structure-activity relationship (QSAR))

### 12.5. Results of PBT and vPvB assessment

<b>decanoic acid, mixed diesters with octanoic acid and propylene glycol (68583-51-7)</b>	
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

Other adverse effects	: No additional information available.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Disposal must be done according to official regulations. 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
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
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>				
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

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

decanoic acid, mixed diesters with octanoic acid and propylene glycol is not on the REACH Candidate 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

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

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:

General revision.

Section	Changed item	Change	Comments
9.1	Physical and chemical properties	Modified	
11	Toxicological information	Added	
12.	Additional ecotoxicological information	Added	
15	Chemical safety assessment	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)

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	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
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
DMEL	Derived Minimal Effect level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit

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

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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*