

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
Date of issue: 27/02/2019 Revision date: 27/02/2019 Supersedes: 03/08/2017 Version: 5.00

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

1.1. Product identifier

Product form : Substance
Trade name : MIGLYOL® DO
Chemical name : decyl oleate
EC-No. : 222-981-6
CAS-No. : 3687-46-5

REACH registration No : 01-2119489425-28-0002

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 Cosmetic ingredient

Lubricant Release agent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Email competent person

IOI Oleo GmbH MSDS@ioioleo.de

Zur Hafenspitze 15 D-19322 Wittenberge T +49 40 280031-0

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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

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Name	Product identifier	%
	(CAS-No.) 3687-46-5 (EC-No.) 222-981-6 (REACH-no) 01-2119489425-28-0002	-

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

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.

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 monoxide. Carbon dioxide.

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 : 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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling)

and collect in suitable container for disposal.

Other information : 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

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

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. Keep cool.

Storage temperature : < 30 °C

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

decyl oleate (3687-46-5)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal 33.33 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation 23.5 mg/m³			
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	1.19 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	4.14 mg/m³		
Long-term - systemic effects, dermal 11.9 mg/kg bodyweight/day			
PNEC (Oral)			
PNEC oral (secondary poisoning)	33.33 mg/kg food		

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. 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. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Eye protection:

Use splash goggles when eye contact due to splashing is possible. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. P2. EN 143.

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : light yellow.

Odour : weak. characteristic.

Odour threshold : No data available

pH : No data available

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Relative evaporation rate (butylacetate=1)

Melting point

Freezing point

Boiling point

Flash point

C (Open cup)

Auto-ignition temperature

Pagemposition temperature

S (No data available in No data available in No

Decomposition temperature : > 300 °C

Flammability (solid, gas) : Not applicable

Vapour pressure : < 0.001 (20°C)

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 0.864 g/cm³ (DIN 51757)

Solubility : Water: Insoluble

Log Pow : 12.44 Calculation method

Viscosity, kinematic : 18.4 mm²/s

Viscosity, dynamic : 15.9 mPa·s (20°C, DGF C-IV 7)

Explosive properties : Product is not explosive.

Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

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)

decyl oleate (3687-46-5)		
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401 method)	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)	
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)	

Skin corrosion/irritation . Not classified (based on available data, the classification chiefla are not met)

Additional information : rabbit

(OECD 404 method)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Additional information : Not irritating to rabbits on ocular application

(OECD 405 method)

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Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)		
Additional information	: (OECD 429 method)		
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)		
Additional information	 : Mutagenicity : Ames test : negative (OECD 473 method) : 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)		
decyl oleate (3687-46-5)			
Viscosity, kinematic	18.4 mm²/s		
	1		

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)

decyl oleate (3687-46-5)			
LC50 fish 1	> 3000 mg/l (96 h; Brachydanio rerio)		
EC50 Daphnia 1 > 100 mg/l (48 h; Daphnia magna)			
ErC50 (algae) > 100 mg/l (72 h; Desmodesmus sudspicatus)			
NOEC chronic crustacea	> 1 mg/l (21 d;Daphnia magna;(OECD 211 method))		

12.2. Persistence and degradability

decyl oleate (3687-46-5)		
Persistence and degradability	Biodegradable.	
Biodegradation	87 % (28 d;(OECD 301F method))	

12.3. Bioaccumulative potential

decyl oleate (3687-46-5)		
BCF fish 1 28.88 l/kg Quantitative structure-activity relationship (QSAR)		
Log Pow 12.44 Calculation method		
Bioaccumulative potential	Low bioaccumulation potential.	

12.4. Mobility in soil

decyl oleate (3687-46-5)		
Log Koc	7.02 - 10.03 Quantitative structure-activity relationship (QSAR)	

12.5. Results of PBT and vPvB assessment

decyl oleate (3687-46-5)			
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			

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID		
14.1. UN number	14.1. UN number					
Not applicable	Not applicable Not applicable Not a		Not applicable	Not applicable		
14.2. UN proper shippin	g name					
Not applicable	Not applicable Not applicable Not applicable Not applicable		Not applicable	Not applicable		
14.3. Transport hazard of	14.3. Transport hazard class(es)					
Not applicable	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

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

decyl oleate is not on the REACH Candidate List

decyl oleate is not on the REACH Annex XIV List

decyl oleate is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

decyl oleate is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

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

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SECTION 16: Other information

Indication of changes:					
General revision.	General revision.				
Section	Changed item		Change	Comments	
8.1	DNEL		Added		
8.1	PNEC		Added		
Abbreviations and acron	ıyms:				
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	9		
BCF		Bioconcentration factor			
CLP		Classification Labelling	Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL		Derived Minimal Effect	level		
DNEL		Derived-No Effect Leve	el .		
EC50		Median effective concentration			
IARC Int		International Agency for Research on Cancer			
IATA		International Air Transport Association			
IMDG		International Maritime Dangerous Goods			
LC50		Median lethal concentration			
LD50		Median lethal dose			
LOAEL Lowest Observed Adv		erse Effect Level			
NOAEC No-Observed Adverse I		Effect Concentration			
NOAEL		No-Observed Adverse	Effect Level		
NOEC		No-Observed Effect Concentration			
OECD		Organisation for Economic Co-operation and Development			
PBT		Persistent Bioaccumulative Toxic			
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			
SDS		Safety Data Sheet			
STP		Sewage treatment plant			
TLM Med		Median Tolerance Limit			
vPvB		Very Persistent and Ve	ry Bioaccumulative		
Department issuing data :		: KFT Chemieservice GmbH			

specification sheet:

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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

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