

NACOL ETHER 18

Version: 1.06

Revision Date 16.09.2019

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name	NACOL ETHER 18
REACH No.	01-2119956371-37-0001
Substance name (REACH / CLP)	Diocetadecyl ether

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

Use	Industrial use raw material for lubricants and lubricant additives printing ink additive raw material for photochemicals raw material for plastics additives raw material for printing inks and printing ink additives raw material for textile finishing agents Solvent
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg Germany
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number	+ 49 (0) 5 51 - 1 92 40 (GIZ-Nord Poisons Centre)
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SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Forms slippery/greasy layers with water.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture in the meaning of regulation (EC) 1907/2006.

CHEMICAL CHARACTERIZATION**dioctadecyl ether****content:** >= 90 %**component type:** Active ingredient**EC-No.:** 228-567-1**Index-No.:****CAS-No.:** 6297-03-6**REACH No.:** 01-2119956371-37-0001**Substance name (REACH / CLP):** Dioctadecyl ether**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES**

No hazardous ingredients

Substances for which maximum allowable workplace concentrations have been laid down**octadecan-1-ol****content:** >= 10 - < 12,5 %**component type:** Impurity**EC-No.:** 204-017-6**Index-No.:****CAS-No.:** 112-92-5**Other data**

stabilised by the addition of an inhibitor

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice	No hazards which require special first aid measures.
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
In case of skin contact	Wash off with plenty of water.
In case of eye contact	Rinse with plenty of water.
If swallowed	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available. Risks: No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: No information available.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, Dry powder, Foam, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Further information Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

Special precautions Danger of slipping after spill or leakage.

6.2 Environmental precautions

Environmental precautions No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal. Molten form Allow to solidify, use mechanical handling equipment.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on protection against fire and explosion Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers No special storage conditions required.

Storage class (TRGS 510) 10-13: German Storage Class 10 to 13

Other data Stable under normal conditions.

7.3 Specific end use(s)

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Specific use(s) This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits****EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

DERIVED NO EFFECT LEVEL (DNEL)**Substance name: Dioctadecyl ether**

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)**Substance name: Dioctadecyl ether**

No data available

8.2 Exposure controls**PERSONAL PROTECTIVE EQUIPMENT**

Respiratory protection	No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.
Hand protection	Coordinate hand protection with other chemicals used. Preventive hand protection is recommended., Use barrier cream regularly.
Eye protection	Safety glasses
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Protective measures	No special protective equipment required.

ENVIRONMENTAL EXPOSURE CONTROLS**General advice** No special environmental precautions required.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	solid; 20 °C; 1.013 hPa
Form	Solid form
Colour	light yellow
Odour	characteristic
Odour Threshold	No valid method available.
pH	No data available
Melting point/range	62 °C
Flash point	259 °C
Evaporation rate	Not relevant / Not applicable Justification: Solid
Flammability (solid, gas)	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0,1 hPa; 20 °C
Relative vapour density	Not applicable, Justification: Solid
Density	0,793 g/cm ³ ; 80 °C
Water solubility	insoluble
Partition coefficient: n-octanol/water	No data available
Ignition temperature	Not relevant, solid with a melting point < 160°C
Viscosity, dynamic	Not applicable, Justification: Solid
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Note Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions Hazardous decomposition products formed under fire conditions.

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10.4 Conditions to avoid

Conditions to avoid Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

10.5 Incompatible materials to avoid

Materials to avoid None known.;

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if used as directed.

Thermal decomposition No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity dioctadecyl ether:
LD50 Rat: > 5.000 mg/kg; OECD Test Guideline 401
(literature value)
Based on available data, the classification criteria are not met.

Acute inhalation toxicity dioctadecyl ether:
No data available

Acute dermal toxicity dioctadecyl ether:
LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Dioctyl ether
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation dioctadecyl ether:
Rabbit: not irritating; OECD Test Guideline 404
(literature value)
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Eye irritation dioctadecyl ether:
Rabbit: not irritating; OECD Test Guideline 405
(literature value)
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Sensitisation dioctadecyl ether:
Buehler Test Guinea pig: not sensitizing; OECD Test Guideline 406
(literature value)
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro dioctadecyl ether:
In vitro tests did not show mutagenic effects
(literature value)
The data are derived from the evaluations or test results achieved with similar

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Remarks	<p>products (conclusion by analogy). Test substance: Dioctyl ether</p> <p>dioctadecyl ether: Based on available data, the classification criteria are not met.</p>
Carcinogenicity	
Carcinogenicity	<p>dioctadecyl ether: This information is not available.</p>
Reproductive toxicity	
Reproductive toxicity	<p>dioctadecyl ether: This information is not available.</p>
Teratogenicity	<p>dioctadecyl ether: Rat; Oral; OECD Test Guideline 414 (literature value) Did not show teratogenic effects in animal experiments. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Dioctyl ether</p>
Remarks-Teratogenicity	<p>dioctadecyl ether: Based on available data, the classification criteria are not met.</p>
STOT - single exposure	
Remarks	<p>dioctadecyl ether: The substance or mixture is not classified as specific target organ toxicant, single exposure.</p>
STOT - repeated exposure	
Remarks	<p>dioctadecyl ether: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p>
Repeated dose toxicity	<p>dioctadecyl ether: Rat; Oral; 90-day NOAEL: 1.000 mg/kg (based on body weight and day); OECD Test Guideline 408 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Dioctyl ether</p>
Aspiration hazard	
Aspiration toxicity	<p>dioctadecyl ether: Not applicable</p>
Toxicological information	<p>dioctadecyl ether: Toxicokinetics Based on the available structural data, phys-chem properties and toxicology data, it is likely that the substance is very poorly absorbed.</p>

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish dioctadecyl ether:

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	LC50 (96 h) Danio rerio (zebra fish): > 100 mg/l ; semi-static test; ISO 7346/1-3 (literature value)
Toxicity to fish - Chronic toxicity	dioctadecyl ether: No data available
Toxicity to daphnia and other aquatic invertebrates	dioctadecyl ether: EC50 (48 h) Daphnia magna (Water flea): > 100 mg/l ; static test; OECD Test Guideline 202 (literature value)
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	dioctadecyl ether: No data available
Toxicity to aquatic plants	dioctadecyl ether: EL50 (72 h) Pseudokirchneriella subcapitata (green algae): > 100 mg/l ; Growth rate; static test; OECD Test Guideline 201; (literature value) dioctadecyl ether: NOELR (72 h) Pseudokirchneriella subcapitata (green algae): 100 mg/l ; Growth rate; static test; OECD Test Guideline 201; (literature value)
Toxicity to bacteria	dioctadecyl ether: EC10 (3 h) activated sludge, domestic: > 1.000 mg/l; static test; OECD Test Guideline 209 (literature value)
Toxicity to soil dwelling organisms	dioctadecyl ether: No data available
Toxicity to terrestrial flora	dioctadecyl ether: No data available
Toxicity for other terrestrial non-mammalian fauna	dioctadecyl ether: No data available
12.2 Persistence and degradability	
Biodegradability	dioctadecyl ether: not readily biodegradable (10 day window not reached); > 60 %; 28 d; aerobic; OECD Test Guideline 301D (literature value)
12.3 Bioaccumulative potential	
Bioaccumulation	dioctadecyl ether: Bioconcentration factor (BCF): 78,38; QSAR (literature value) not bioaccumulative according PBT criteria
12.4 Mobility in soil	
Mobility	dioctadecyl ether: Adsorption/Soil/Sewage sludge; log Koc: > 4,1; OECD Test Guideline 121 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). strong adsorption to soil The substance and its relevant degradation products decompose rapidly.
12.5 Results of PBT and vPvB assessment	
Results of PBT assessment	dioctadecyl ether: Based on available data, the classification criteria are not met.
12.6 Other adverse effects	
General advice	dioctadecyl ether: None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Can be incinerated, when in compliance with local regulations.
waste code of the European Union: EWC	A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 Proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no

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ICAO/IATA	Environmentally hazardous	no
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14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks	No information available.
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SECTION 15: REGULATORY INFORMATION

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

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive:: Not applicable
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NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	not listed (product or constituents are not listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	not listed (product or constituents are not listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	not listed (product or constituents are not listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	not listed (product or constituents are not listed)
China. Inventory of Existing Chemical Substances (IECSC)	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

Diocadecyl ether

A Chemical Safety Assessment has been carried out for this substance. An annex to the safety data sheet according to article 31 paragraph 7 is not required.

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SECTION 16: OTHER INFORMATION

Safety datasheet sections which have been updated:

8. Exposure controls/personal protection

Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse



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