

Version: 8.01 Revision Date 2017/02/23

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name MARLIPAL 1618/11

INCI Ceteareth-11

Substance name (REACH / CLP) Alcohols, C16-18, ethoxylated (>=2.5 moles EO) (CAS: 68439-49-6)

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

Use Industrial use

raw material for cosmetic agents

raw material for washing and cleaning agents

surface-active substance

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company SASOL Germany GmbH

Anckelmannsplatz 1 20537 Hamburg

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) 23 65 - 49 22 32

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity Category 4 (Oral) Harmful if swallowed.

Serious eye damage Category 1 Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word Danger



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Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse

mouth.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

Danger of slipping after spill or leakage. Forms slippery/greasy layers with water.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

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

Alcohols, C16-18, ethoxylated (>= 2.5 EO)

content: >= 90 - <= 100 % component type: Active ingredient

EC-No.: Index-No.: CAS-No.: 68439-49-6

REACH No.: Not relevant (polymer)

 Classification (Regulation (EC) No 1272/2008):
 Acute Tox.
 4 (Oral)
 H302

 Eye Dam.
 1
 H318

Specific Concentration Limits (see section 11)

> 20 % Eye Dam. Category 1; H318 > 1 - 20 % Eye Irrit. Category 2; H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice If you feel unwell, seek medical advice (show the label where possible).

If inhaled Remove from exposure, lie down. If breathing is irregular or stopped, administer

artificial respiration. Monitor breathing, give oxygen if necessary. Consult a



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physician.

In case of skin contact Wash off immediately with plenty of water. Consult a physician if necessary.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If swallowed Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

Call a physician immediately.

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.

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.

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.

6.2 Environmental precautions

Environmental precautions Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

accordance with regulations.

6.4 Reference to other sections

For personal protection see section 8.



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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment.

Avoid contact with skin and eyes.

Advice on protection against

fire and explosion

Provide sufficient air exchange and/or exhaust in work rooms. Do not spray on a naked flame or any incandescent material.

Fire-fighting class B: Fires involving liquids or liquid containing substances. Also includes substances

which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

Keep tightly closed in a dry and cool place.

Storage class (TRGS 510) 11: Combustible Solids

Other data Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

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

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Alcohols, C16-18, ethoxylated (>= 2.5 EO)

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Alcohols, C16-18, ethoxylated (>= 2.5 EO)

No data available

8.2 Exposure controls

ENGINEERING MEASURES

If possible, use material transfer/filling, metering and blending plants that are closed.



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PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection 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. No personal respiratory protective equipment normally

required.

Hand protection The choice of an appropriate glove does not only depend on its material but also

on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g.

temperature).

gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: >= 480 min Layer thickness: >= 0.7 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Layer thickness: >= 0.4 mm

Eye protection Tightly fitting safety goggles, Safety glasses with side-shields

Skin and body protection Wear suitable protective equipment.

Hygiene measures Avoid contact with eyes. General industrial hygiene practice. Handle in accordance

with good industrial hygiene and safety practice. Keep away from food, drink and

animal feedingstuffs. When using, do not eat, drink or smoke.

Protective measures Avoid contact with eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice Avoid subsoil penetration.

Water Do not flush into surface water or sanitary sewer system.

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 white
Odour mild

Odour Threshold No valid method available

pH 5 - 7; 20 g/l; 20 °C



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Melting point/range ca. 35 °C

Boiling point/boiling range Not applicable

Flash point > 200 °C; DIN 51376

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 relevant / not applicable, Justification: Solid

Density ca.0.97 g/cm3; 50 °C

Water solubility 20 °C; completely miscible

Partition coefficient: n-Not relevant / not applicable octanol/water

Justification: surface-active substance

Ignition temperature > 300 °C; DIN 51794 **Auto-ignition temperature** not auto-flammable

Viscosity, dynamic ca. 35 mPas; 50 °C; Brookfield method

Explosive properties not expected based on structure and functional groups **Oxidizing properties** not expected based on structure and functional groups

9.2 Other data

Additional advice no data

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 None known.

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 Strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition

products

No decomposition if stored normally.



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Thermal decomposition Hazardous decomposition products formed under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity Alcohols, C16-18, ethoxylated (>= 2.5 EO):

LD50 Rat: > 300 - 2,000 mg/kg own test results/literature values

Category approach Harmful if swallowed.

Acute inhalation toxicity Alcohols, C16-18, ethoxylated (>= 2.5 EO):

No data available

Acute dermal toxicity Alcohols, C16-18, ethoxylated (>= 2.5 EO):

LD50 Rabbit: > 2,000 mg/kg;

Category approach

own test results/literature values

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Rabbit: not irritating

own test results/literature values

Category approach

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Eye irritation Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Rabbit: May cause irreversible eye damage.

Category approach

own test results/literature values Causes serious eye damage.

Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Rabbit: irritating

Test substance: 20% dilution Causes serious eye irritation.

Respiratory or skin sensitisation

Sensitisation Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Maximisation Test Guinea pig: not sensitizing

Category approach (literature value)

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro Alcohols, C16-18, ethoxylated (>= 2.5 EO):

In vitro tests did not show mutagenic effects

Category approach

own test results/literature values

Genotoxicity in vivo Alcohols, C16-18, ethoxylated (>= 2.5 EO):

In vivo tests did not show mutagenic effects

Category approach (literature value)

Remarks Alcohols, C16-18, ethoxylated (>= 2.5 EO):



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Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity Alcohols, C16-18, ethoxylated (>= 2.5 EO):

The substance has been shown to be not genotoxic, therefore it is not expected to

have a carcinogenic potential.

Category approach (literature value)

Remarks Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Based on available data, the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity Alcohols, C16-18, ethoxylated (>= 2.5 EO):

No indications that the substance caused adverse effects on reproductive organs.

Category approach (literature value)

RemarksReproductive

toxicity

Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Based on available data, the classification criteria are not met.

Teratogenicity Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Did not show teratogenic effects in animal experiments.

Category approach (literature value)

Remarks-Teratogenicity Alc

Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Based on available data, the classification criteria are not met.

STOT - single exposure

Remarks Alcohols, C16-18, ethoxylated (>= 2.5 EO):

The substance or mixture is not classified as specific target organ toxicant, single

exposure.

STOT - repeated exposure

Remarks Alcohols, C16-18, ethoxylated (>= 2.5 EO):

The substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

Repeated dose toxicity Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Rat; Oral; 2 years

NOAEL: 50 mg/kg (based on body weight and day)

Target Organs: Heart, Liver, Kidney

Symptoms: reduced body weight gain, increased relative organ weights

Category approach (literature value)

Aspiration hazard

Aspiration toxicity Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Not applicable

Toxicological information Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Toxicokinetics Category approach

The substance is expected to be rapidly absorbed and excreted.

(literature value)



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Alcohols, C16-18, ethoxylated (>= 2.5 EO): Toxicity to fish

LC50 (96 h) Brachydanio rerio (zebrafish): > 1 - 10 mg/l; semi-static test

own test results/literature values

Category approach

Toxicity to fish - Chronic

toxicity

Alcohols, C16-18, ethoxylated (>= 2.5 EO):

No data available

Toxicity to daphnia and other

aquatic invertebrates

Alcohols, C16-18, ethoxylated (>= 2.5 EO):

EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l; static test; own test

results/literature values Category approach

Toxicity to daphnia and other

aquatic invertebrates - Chronic

Alcohols, C16-18, ethoxylated (>= 2.5 EO): No data available

toxicity

Alcohols, C16-18, ethoxylated (>= 2.5 EO): Toxicity to aquatic plants

EC10 (72 h) algae: 9.5 mg/l; Growth rate; own test results/literature values;

Category approach

Alcohols, C16-18, ethoxylated (>= 2.5 EO): Toxicity to bacteria

EC50 activated sludge: 140 mg/l; Respiration inhibition

Category approach (literature value)

Alcohols, C16-18, ethoxylated (>= 2.5 EO): Toxicity to terrestrial flora

emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test

Guideline 208

own test results/literature values

Category approach

Toxicity for other terrestrial non-mammalian fauna

Alcohols, C16-18, ethoxylated (>= 2.5 EO):

No data available

12.2 Persistence and degradability

Biodegradability Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B

own test results/literature values

Category approach

12.3 Bioaccumulative potential

Bioaccumulation Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Bioaccumulation is unlikely.

(literature value)

12.4 Mobility in soil

Mobility Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Adsorption/Soil; Koc: > 5000; QSAR

immobile

strong adsorption to soil (literature value)

12.5 Results of PBT and vPvB assessment

Results of PBT assessment This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative

(vPvB) at levels of 0.1% or higher.

Results of PBT assessment Alcohols, C16-18, ethoxylated (>= 2.5 EO):

Based on available data, the classification criteria are not met.

Category approach



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12.6 Other adverse effects

General advice Alcohols, C16-18, ethoxylated (>= 2.5 EO):

None known.

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

The waste code must be determined in agreement with the regional waste disposal authority or company. 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.

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



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ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

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

Remarks No information available.

SECTION 15: REGULATORY INFORMATION

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

Occupational restrictions Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

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

Other regulations This surfactant complies with the biodegradability criteria as laid down in

Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent

manufacturer.



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NOTIFICATION STA	TUS
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Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are 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)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	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

Alcohols, C16-18, ethoxylated (>= 2.5 EO)

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed. H318 Causes serious eye damage.

Safety datasheet sections which have been updated:

3. Composition/information on ingredients

11. Toxicological information

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



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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 Intermediate Bulk Container IBC International Civil Aviation Organization ICAO IMDG International Maritime Dangerous Goods IMO International Maritime Organization ISHL Industrial Safety and Health Law (Japan) ISO International Organization for Standardization International Union of Pure and Applied Chemistry IUAPC

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