

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

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

1.1 Product identifier

Trade name	Marlowet CG
-------------------	--------------------

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

Use	raw material for cosmetic agents raw material for personal care products
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)**

Not a hazardous substance or mixture.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

Forms slippery/greasy layers with water.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

CHEMICAL CHARACTERIZATION

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

stabilised by the addition of an inhibitor

castor oil, ethoxylated, dioleate**component type:** Active ingredient**EC-No.:**
REACH No.: Not relevant (polymer)**Index-No.:****CAS-No.:** 110531-96-9**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

Other data

Synonyms: Castor oil, ethoxylated, dioleate; Oleic acid, ester with ethoxylated castor oil; CAS-No.: 110531-96-9 / Castor oil, ethoxylated, oleate; CAS-No.: 220037-02-5

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 soap and water.
In case of eye contact	Rinse with plenty of water.
If swallowed	Consult a physician if necessary. Rinse mouth.

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, Foam, Dry powder, Carbon dioxide (CO ₂)
-------------------------------------	--

5.2 Special hazards arising from the substance or mixture

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

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Handle in accordance with good industrial hygiene and safety practice.
Special precautions	Forms slippery/greasy layers with water.

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

Methods for cleaning up	Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
--------------------------------	---

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 safe handling	No special technical protective measures required.
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: Combustible liquids not in Storage Class 3
Other data	Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s)	This information is not available.
------------------------	------------------------------------

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

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: castor oil, ethoxylated, dioleate**

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)**Substance name: castor oil, ethoxylated, dioleate**

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 aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

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: \geq 480 min
Layer thickness: \geq 0,7 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex
Break through time: \geq 30 min
Layer thickness: \geq 0,4 mm

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

Eye protection	Safety glasses
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	General industrial hygiene practice.
Protective measures	No special protective equipment required.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. 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	liquid; 20 °C; 1.013 hPa
Form	liquid
Colour	yellow
Odour	mild
Odour Threshold	No valid method available
pH	ca. 8; 20 g/l; 20 °C; DIN EN 1262
Melting point/range	< -20 °C; DIN ISO 3841
Flash point	278 °C; DIN 51376
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0,1 hPa; 20 °C
Relative vapour density	> 1
Density	ca.0,98 g/cm ³ ; 20 °C; DIN 51757
Water solubility	emulsifiable
Partition coefficient: n-octanol/water	not applicable (mixture)
Ignition temperature	ca. 370 °C; DIN 51794
Auto-ignition temperature	liquid with a flash point of > 200 °C
Viscosity, kinematic	No data available
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
--------------------------	---------

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.
No decomposition if stored and applied as directed.

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 None known.;

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if stored normally.

Thermal decomposition No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity castor oil, ethoxylated, dioleate:
LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 401
Based on available data, the classification criteria are not met.

Acute inhalation toxicity castor oil, ethoxylated, dioleate:
No data available

Acute dermal toxicity castor oil, ethoxylated, dioleate:
LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation castor oil, ethoxylated, dioleate:
Rabbit: slightly irritating; OECD Test Guideline 404
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Eye irritation castor oil, ethoxylated, dioleate:
Rabbit: not irritating; OECD Test Guideline 405
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

Sensitisation	castor oil, ethoxylated, dioleate: Buehler Test Guinea pig: not sensitizing; OECD Test Guideline 406 Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	castor oil, ethoxylated, dioleate: Ames test; Salmonella typhimurium; with and without metabolic activation: negative; OECD Test Guideline 471
Genotoxicity in vivo	castor oil, ethoxylated, dioleate: No data available
Remarks	castor oil, ethoxylated, dioleate: Based on available data, the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	castor oil, ethoxylated, dioleate: This information is not available.
Reproductive toxicity	
Reproductive toxicity	castor oil, ethoxylated, dioleate: This information is not available.
Teratogenicity	castor oil, ethoxylated, dioleate: This information is not available.
STOT - single exposure	
Remarks	castor oil, ethoxylated, dioleate: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Repeated dose toxicity	castor oil, ethoxylated, dioleate: This information is not available.
Aspiration hazard	
Aspiration toxicity	castor oil, ethoxylated, dioleate: Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	castor oil, ethoxylated, dioleate: LC50 (96 h) Brachydanio rerio (zebrafish): > 100 mg/l ; semi-static test; OECD Test Guideline 203
Toxicity to fish - Chronic toxicity	castor oil, ethoxylated, dioleate: No data available
Toxicity to daphnia and other aquatic invertebrates	castor oil, ethoxylated, dioleate: EC50 (48 h) Daphnia magna (Water flea): > 10 - 100 mg/l ; static test; OECD Test Guideline 202
Toxicity to daphnia and other aquatic invertebrates - Chronic	castor oil, ethoxylated, dioleate:

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

toxicity	No data available
Toxicity to aquatic plants	castor oil, ethoxylated, dioleate: EC50 (72 h) <i>Desmodesmus subspicatus</i> (green algae): > 100 mg/l ; static test; OECD Test Guideline 201 castor oil, ethoxylated, dioleate: NOEC (72 h) <i>Desmodesmus subspicatus</i> (green algae): > 100 mg/l ; static test; OECD Test Guideline 201
Toxicity to bacteria	castor oil, ethoxylated, dioleate: EC10 (5 h) <i>Pseudomonas putida</i> : > 2.000 mg/l; oxygen consumption test
Toxicity to soil dwelling organisms	castor oil, ethoxylated, dioleate: LC50 (14 d) <i>Eisenia foetida</i> : > 1.000 mg/kg; mortality; artificial soil
Toxicity to terrestrial flora	castor oil, ethoxylated, dioleate: emergence, growth; EC50: > 100 mg/kg; <i>Triticum aestivum</i> (wheat), <i>Lepidium sativum</i> (cress), <i>Brassica alba</i> (mustard); OECD Test Guideline 208
Toxicity for other terrestrial non-mammalian fauna	castor oil, ethoxylated, dioleate: The study is not necessary. Justification: Readily biodegradable.
12.2 Persistence and degradability	
Biodegradability	castor oil, ethoxylated, dioleate: rapidly biodegradable; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
12.3 Bioaccumulative potential	
Bioaccumulation	castor oil, ethoxylated, dioleate: No data available
12.4 Mobility in soil	
Mobility	castor oil, ethoxylated, dioleate: No data available
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	castor oil, ethoxylated, dioleate: Based on available data, the classification criteria are not met.
12.6 Other adverse effects	
General advice	castor oil, ethoxylated, dioleate: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Can be incinerated, when in compliance with local regulations.
Contaminated packaging	Empty remaining contents.
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.

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

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
ICAO/IATA	Environmentally hazardous	no

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.

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

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

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.

NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	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)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	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)
New Zealand. Inventory of Chemicals (NZIOC), as published by ERMA New Zealand	NZIOC	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

castor oil, ethoxylated, dioleate

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

MARLOWET CG

Version: 2.10

Revision Date 05.12.2018

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