

Version: 4.06 Revision Date 2020/01/23

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

1.1 Product identifier

Trade name MARLOWET R 11

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

Use Industrial use

emulsifying agent

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) 23 65 - 49 22 32

Emergency Telephone No.: Palmer Holland: 800-635-4822 Chemtrec: 800-424-9300

North Olmsted, OH 44070-5331

Distributed by: Palmer Holland, Inc.

25000 Country Club Blvd., Suite 444

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

No hazards to be specially mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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



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CHEMICAL CHARACTERIZATION

castor oil, ethoxylated (>=6,5 EO)

component type: Active ingredient

EC-No.: Index-No.: CAS-No.: 61791-12-6

REACH No.: Not relevant (polymer)

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

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 (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.



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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.

Other data Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) This information is not available.



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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 (>=6,5 EO)

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: castor oil, ethoxylated (>=6,5 EO)

No data available

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protectionNo 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 protectionThe 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



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Layer thickness: >= 0.4 mm

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 yellowish
Odour mild

Odour Threshold No valid method available.

pH 5 - 7; 20 g/l; 20 °C

Melting point/range ca. -40 °C

Boiling point/boiling range Not applicable

Flash point ca. 270 °C; DIN 51376

Evaporation rate No data available

Flammability (solid, gas) not applicable (liquid)

Lower explosion limitNo data availableUpper explosion limitNo data availableVapour pressure< 0.1 hPa; 20 °C</th>

Relative vapour density > 1

Density ca.1.0 g/cm3; 20 °C

Water solubility emulsifiable

Partition coefficient: n- Not relevant / Not applicable

octanol/water Justification: surface-active substance

Ignition temperature> 300 °C; DIN 51794Auto-ignition temperaturenot auto-flammableViscosity, kinematicNo data available

Explosive properties not expected based on structure and functional groups



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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.

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 (>=6,5 EO):

LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401

Category approach

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

Acute inhalation toxicity castor oil, ethoxylated (>=6,5 EO):

No data available

Acute dermal toxicity castor oil, ethoxylated (>=6,5 EO):

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

Justification:

Data are available from alternate exposure routes. The substance or mixture has no acute oral toxicity

Skin corrosion/irritation

Skin irritation castor oil, ethoxylated (>=6,5 EO):

Rabbit: slightly irritating; OECD Test Guideline 404



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Category approach

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

Serious eye damage/eye irritation

Eye irritation castor oil, ethoxylated (>=6,5 EO):

Rabbit: not irritating; OECD Test Guideline 405

Category approach

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

Respiratory or skin sensitisation

Sensitisation castor oil, ethoxylated (>=6,5 EO):

Mouse local lymphnode assay: not sensitizing; OECD Test Guideline 406

Category approach

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

Germ cell mutagenicity

Genotoxicity in vitro castor oil, ethoxylated (>=6,5 EO):

Ames test; Salmonella typhimurium; with and without metabolic activation: Non

mutagenic; OECD Test Guideline 471

Category approach

Remarks castor oil, ethoxylated (>=6,5 EO):

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

Carcinogenicity

Carcinogenicity castor oil, ethoxylated (>=6,5 EO):

This information is not available.

Reproductive toxicity

Reproductive toxicity castor oil, ethoxylated (>=6,5 EO):

This information is not available.

Teratogenicity castor oil, ethoxylated (>=6,5 EO):

This information is not available.

STOT - single exposure

Remarks castor oil, ethoxylated (>=6,5 EO):

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

exposure.

STOT - repeated exposure

Remarks castor oil, ethoxylated (>=6,5 EO):

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

repeated exposure.

Repeated dose toxicity castor oil, ethoxylated (>=6,5 EO):

No data available

Aspiration hazard

Aspiration toxicity castor oil, ethoxylated (>=6,5 EO):

Not applicable



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish castor oil, ethoxylated (>=6,5 EO):

LC50 (96 h) Danio rerio (zebra fish): > 100 mg/l; semi-static test; OECD Test

Guideline 203 Category approach

Toxicity to daphnia and other

aquatic invertebrates

castor oil, ethoxylated (>=6,5 EO):

EC50 (48 h) Daphnia magna (Water flea): > 10 - 100 mg/l; static test; OECD Test

Guideline 202 Category approach

Toxicity to aquatic plants castor oil, ethoxylated (>=6,5 EO):

EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l; static test;

OECD Test Guideline 201; Category approach

Toxicity to bacteria castor oil, ethoxylated (>=6,5 EO):

EC50 (4.67 h) Pseudomonas putida: > 990 mg/l; oxygen consumption test

Category approach

12.2 Persistence and degradability

Biodegradability castor oil, ethoxylated (>=6,5 EO):

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

Category approach

12.3 Bioaccumulative potential

Bioaccumulation castor oil, ethoxylated (>=6,5 EO):

No data available

12.4 Mobility in soil

Mobility castor oil, ethoxylated (>=6,5 EO):

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.

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 (>=6,5 EO):

This substance is not considered to be persistent, bioaccumulating and toxic

(PBT)

This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

12.6 Other adverse effects

General advice castor oil, ethoxylated (>=6,5 EO):

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Can be incinerated, when in compliance with local regulations.



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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.

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.



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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

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

CLLINIV/

manufacturer.

Cuitandand Consolidated Inventory (based on ELLEINIECC and

NOTIFICATION STATUS

Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia Inventory of Chemical Substances (AICS)	AICS	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	TCSI	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	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 (>=6,5 EO)

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



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SECTION 16: OTHER INFORMATION

Safety datasheet sections which have been updated:

15. Regulatory 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

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

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

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