

**MARLOWET R 11**

Version: 5.00

Date of first issue: 2001/06/28

Revision Date: 2023/04/13

Date of last issue: 2020/01/23

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

Trade name	MARLOWET R 11
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**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture	Industrial use, Emulsifier
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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)	E-mail: msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+44 1235 239670 +44 1235 239671 +1 215 207 0061 +65 3158 1074 +44 1865 407333	Europe Middle East, Africa North America, South America Asia Pacific Region Global (english)
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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.

**2.2 Label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

**2.3 Other hazards**

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.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

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

**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)**Substance name (REACH / CLP):** Castor oil, ethoxylated**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

For information on ingredients listed on the candidate list (Candidate List of Substances of Very High Concern for Authorisation) or in the list of substances subject to authorization (Annex XIV of Regulation (EC) No 1907/2006), see section 15.1. of this data sheet.

**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****Symptoms**

No information available.

**Risks**

No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

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No information available.

**SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Water, Foam, Dry powder, Carbon dioxide (CO <sub>2</sub> )
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**5.2 Special hazards arising from the substance or mixture**

<b>Specific hazards during firefighting</b>	Dangerous gases or fumes may occur in case of fire.
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**5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus for firefighting if necessary.
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<b>Further information</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Handle in accordance with good industrial hygiene and safety practice.
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<b>Special precautions</b>	Forms slippery/greasy layers with water.
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**6.2 Environmental precautions**

<b>Environmental precautions</b>	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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**6.3 Methods and materials for containment and cleaning up**

<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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**6.4 Reference to other sections**

For personal protection see section 8.

**SECTION 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

<b>Advice on safe handling</b>	No special technical protective measures required.
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<b>Advice on protection against fire and explosion</b>	Normal measures for preventive fire protection.
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**7.2 Conditions for safe storage, including any incompatibilities**

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**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.

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

Contains no substances with occupational exposure limit values.

No data available

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

**DERIVED NO EFFECT LEVEL (DNEL)****Substance name: Castor oil, ethoxylated**

No data available

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

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** Material: butyl-rubber  
Break through time:  $\geq$  480 min  
Glove thickness:  $\geq$  0.7 mm  
  
Material: Nitrile rubber  
Break through time:  $\geq$  30 min

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Glove thickness:  $\geq 0.4$  mm

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).

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

**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Physical state: liquid; 20 °C; 1,013 hPa Shape: Liquid
<b>Colour</b>	yellowish
<b>Odour</b>	mild
<b>Odour Threshold</b>	No valid method available.
<b>Melting point/range</b>	ca. -40 °C
<b>Boiling point/boiling range</b>	Not applicable
<b>Flammability</b>	not applicable (liquid)
<b>Upper explosion limit</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Flash point</b>	ca. 270 °C; DIN 51376
<b>Auto-ignition temperature</b>	> 300 °C; DIN 51794
<b>Decomposition temperature</b>	No decomposition if used as directed.
<b>pH</b>	5 - 7; 20 g/l; 20 °C
<b>Viscosity</b>	

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Viscosity, kinematic	No data available
Solubility(ies)	
Water solubility	emulsifiable
Partition coefficient: n-octanol/water	Not relevant / Not applicable Justification: surface-active substance
Vapour pressure	< 0.1 hPa; 20 °C
Density	ca.1.0 g/cm <sup>3</sup> ; 20 °C
Relative vapour density	> 1

**9.2 Other information**

Explosives	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups
Self-ignition	not auto-flammable
Evaporation rate	No data available

**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

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

Note	No decomposition if stored and applied as directed.
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**10.3 Possibility of hazardous reactions**

Hazardous reactions	None known.
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**10.4 Conditions to avoid**

Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
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**10.5 Incompatible materials to avoid**

Materials to avoid	None known.;
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**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**

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**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Not classified based on available information.

<b>Acute oral toxicity</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 Category approach
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<b>Acute inhalation toxicity</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO):
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No data available

<b>Acute dermal toxicity</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO):
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No data available

**Skin corrosion/irritation**

Not classified based on available information.

<b>Skin irritation</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): Rabbit: slightly irritating; OECD Test Guideline 404 Category approach
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**Serious eye damage/eye irritation**

Not classified based on available information.

<b>Eye irritation</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): Rabbit: No eye irritation; OECD Test Guideline 405 Category approach
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**Skin sensitisation / Respiratory sensitisation**

Skin contact: Not classified based on available information.

Inhalation: Not classified based on available information.

<b>Sensitisation</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): Mouse local lymphnode assay : not sensitizing; OECD Test Guideline 406 Category approach
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**Germ cell mutagenicity**

Not classified based on available information.

<b>Genotoxicity in vitro</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): In vitro tests did not show mutagenic effects Category approach
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**Carcinogenicity**

Not classified based on available information.

<b>Carcinogenicity</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): This information is not available.
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**Reproductive toxicity**

Not classified based on available information.

<b>Effects on fertility</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): This information is not available.
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<b>Effects on foetal development</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): This information is not available.
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**STOT - single exposure**

Not classified based on available information.

**Assessment***castor oil, ethoxylated* ( $\geq 6,5$  EO):

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

**STOT - repeated exposure**

Not classified based on available information.

**Assessment***castor oil, ethoxylated* ( $\geq 6,5$  EO):

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

**Repeated dose toxicity***castor oil, ethoxylated* ( $\geq 6,5$  EO):

No data available

**Aspiration hazard**

Not classified based on available information.

**Aspiration toxicity***castor oil, ethoxylated* ( $\geq 6,5$  EO):

Not applicable

**11.2 Information on other hazards****Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Toxicity to fish***castor oil, ethoxylated* ( $\geq 6,5$  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* ( $\geq 6,5$  EO):EC50 (48 h) Daphnia magna (Water flea): > 10 - 100 mg/l ; static test; OECD Test Guideline 202  
Category approach*castor oil, ethoxylated* ( $\geq 6,5$  EO):LC50 (48 h) Acartia tonsa: > 10 - 100 mg/l ; marine test; ISO 14669 (1999) and ISO 5667-16 (1998)  
Category approach**Toxicity to aquatic plants***castor oil, ethoxylated* ( $\geq 6,5$  EO):

EC50 (72 h) Desmodesmus subspicatus (green algae): &gt; 100 mg/l ; static test; OECD Test Guideline 201; Category approach

*castor oil, ethoxylated* ( $\geq 6,5$  EO):

NOEC (72 h) Desmodesmus subspicatus (green algae): 25 mg/l ; static test; OECD Test Guideline 201; Category approach



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<b>Toxicity to bacteria</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): EC50 (4.67 h) <i>Pseudomonas putida</i> : > 990 mg/l; oxygen consumption test Category approach
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B Category approach
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): No data available
<b>12.4 Mobility in soil</b>	
<b>Distribution among environmental compartments</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): No data available
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	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.
<b>Results of PBT assessment</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ 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).
<b>12.6 Endocrine disrupting properties</b>	
<b>Endocrine disrupting potential</b>	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>12.7 Other adverse effects</b>	
<b>Additional ecological information</b>	<i>castor oil, ethoxylated</i> ( $\geq 6,5$ EO): None known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

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

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number or ID number**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods

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

**14.2 UN 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(es)**

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 Maritime transport in bulk according to IMO instruments**

Remarks	No information available.
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**SECTION 15: REGULATORY INFORMATION**

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

EU PIC: Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable

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**EU SVHC: REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).**

Not applicable

**EU. REACH-Annex XIV: REACH - List of substances subject to authorisation (Annex XIV)**

Not applicable

**EC 1005/2009: Regulation (EC) No 1005/2009 on substances that deplete the ozone layer**

Not applicable

**EU POP: Regulation (EU) 2019/1021 on persistent organic pollutants (recast)**

Not applicable

**UK. REACH Annex XIV: UK REACH List of substances subject to authorisation (Annex XIV)**

Not applicable

**UK SVHC: UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation**

Not applicable

**GB POPs: The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)**

Not applicable

**REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)**

Not applicable

**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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Australian Inventory of Industrial Chemicals	ZAU_AIIC	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	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)
New Zealand. Inventory of Chemical Substances	NZIOC	not listed (product or constituents are not listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	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**

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

**SECTION 16: OTHER INFORMATION****Safety datasheet sections which have been updated:**

- 2. Hazards identification
- 3. Composition/information on ingredients
- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 11. Toxicological information
- 12. Ecological information
- 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

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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