

MARLOX RT 45

Version: 2.03

Revision Date 2020/02/12

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****Trade name** MARLOX RT 45**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
GermanyTelephone: +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)**

Long-term (chronic) aquatic hazard Category 3 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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

Hazardous components which must be listed on the label:

- Alcohols, C16-18 , ethoxylated propoxylated (≥ 2.5 EO/PO)

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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.

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 propoxylated (>= 2.5 EO/PO)****content:** >= 90 - <= 100 %**component type:** Active ingredient**EC-No.:** 614-209-5**Index-No.:****CAS-No.:** 68002-96-0**REACH No.:** Not relevant (polymer)**Classification (Regulation (EC) No 1272/2008):**

Aquatic Chronic

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H412

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**

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**

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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.

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 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: Alcohols, C16-18 , ethoxylated propoxylated (>= 2.5 EO/PO)**

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)**Substance name: Alcohols, C16-18 , ethoxylated propoxylated (>= 2.5 EO/PO)**

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: >= 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

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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.
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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	neutral
Odour Threshold	No valid method available.
pH	No data available
Melting point/range	ca. 14 °C
Flash point	ca. 200 °C; 1,013 hPa; DIN ISO 2592
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	0.96 g/cm ³ ; 20 °C; 1,013 hPa; DIN 51757
Relative density	No data available
Water solubility	dispersible
Partition coefficient: n-octanol/water	No data available
Ignition temperature	ca. 350 °C; 1,013 hPa; DIN 51794
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	No data available
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

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9.2 Other data

Additional advice	no data
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SECTION 10: STABILITY AND REACTIVITY**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.
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Thermal decomposition	No decomposition if used as directed.
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SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): LD50 Rat: \geq 5,000 mg/kg; OECD Test Guideline 423 Category approach Based on available data, the classification criteria are not met.
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Acute inhalation toxicity	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): No data available
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Acute dermal toxicity	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): 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
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Skin corrosion/irritation

Skin irritation	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): Rabbit: Mild skin irritation; OECD Test Guideline 404 Category approach Based on available data, the classification criteria are not met.
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Serious eye damage/eye irritation

Eye irritation Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
Rabbit: slightly irritating; OECD Test Guideline 405
Category approach
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Sensitisation Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
not expected based on structure and functional groups

Germ cell mutagenicity

Genotoxicity in vitro Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
not expected based on structure and functional groups

Genotoxicity in vivo Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
No data available

Carcinogenicity

Carcinogenicity Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
This information is not available.

Reproductive toxicity

Reproductive toxicity Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
This information is not available.

Teratogenicity Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
This information is not available.

STOT - single exposure

Remarks Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Remarks Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
No data available

Aspiration hazard

Aspiration toxicity Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO):
LL50 (96 h) Danio rerio (zebra fish): > 100 mg/l ; static test; OECD Test Guideline 203

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	Category approach
Toxicity to fish - Chronic toxicity	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): No data available
Toxicity to daphnia and other aquatic invertebrates	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): 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 toxicity	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): No data available
Toxicity to aquatic plants	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): EC50 (72 h) Pseudokirchneriella subcapitata (algae): > 10 - 100 mg/l ; Growth rate; static test; OECD Test Guideline 201; Category approach Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): EC10 (72 h) Pseudokirchneriella subcapitata (algae): > 0.1 - 1 mg/l ; Growth rate; static test; OECD Test Guideline 201; Category approach
Toxicity to bacteria	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): No data available
Toxicity to soil dwelling organisms	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): No data available
Toxicity to terrestrial flora	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): No data available
12.2 Persistence and degradability	
Biodegradability	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B Category approach
12.3 Bioaccumulative potential	
Bioaccumulation	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): No data available
12.4 Mobility in soil	
Mobility	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): 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	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): 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). Category approach
12.6 Other adverse effects	
General advice	Alcohols, C16-18 , ethoxylated propoxylated (\geq 2.5 EO/PO): Harmful to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

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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.

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.

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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

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

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

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

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

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SECTION 16: OTHER INFORMATION

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

H412 Harmful to aquatic life with long lasting effects.

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 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
IUPAC	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



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WGK

Wassergefährdungsklasse