

MARLOX FK 69

Version: 6.03

Revision Date 2020/03/17

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

Trade name	MARLOX FK 69
Substance name (REACH / CLP)	Alcohols, C10-12, ethoxylated propoxylated

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

Use	Industrial use raw material for washing and cleaning agents raw material for textile auxiliary agents surface-active substance anti-foaming 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
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SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008)	
Eye irritation Category 2	Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Warning

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Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash skin thoroughly after handling.
 P280 Wear eye protection/ face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards

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.

CHEMICAL CHARACTERIZATION

Alcohols, C10-12, ethoxylated, propoxylated

component type: Active ingredient

EC-No.: 935-890-8

Index-No.:

CAS-No.: 68154-97-2

REACH No.: Not relevant (polymer)

Substance name (REACH / CLP): Alcohols, C10-12 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) (CAS: 68154-97-2)

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, C10-12, ethoxylated, propoxylated

content: >= 90 - <= 100 %

component type: Active ingredient

EC-No.: 935-890-8

Index-No.:

CAS-No.: 68154-97-2

REACH No.: Not relevant (polymer)

Substance name (REACH / CLP): Alcohols, C10-12 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) (CAS: 68154-97-2)

Classification (Regulation (EC) No 1272/2008): Eye Irrit. 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). Take off all contaminated clothing immediately.

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.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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.
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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.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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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.
Special precautions	No conditions to be specially mentioned.

6.2 Environmental precautions

Environmental precautions	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

Methods for cleaning up	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.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Wear personal protective equipment.
Advice on protection against fire and explosion	No special protective measures against fire required.

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, C10-12 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) (CAS: 68154-97-2)**

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)**Substance name: Alcohols, C10-12 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) (CAS: 68154-97-2)**

No data available

8.2 Exposure controls**PERSONAL PROTECTIVE EQUIPMENT**

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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	<p>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).</p> <p>gloves suitable for permanent contact: Material: butyl-rubber Break through time: >= 480 min Layer thickness: >= 0.7 mm</p> <p>gloves suitable for splash protection: Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Layer thickness: >= 0.4 mm</p>
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wear suitable gloves and eye/face protection.
Protective measures	Wear suitable gloves and eye/face protection. Avoid contact with the skin and the eyes.

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	transparent
Odour	mild
Odour Threshold	No valid method available.
pH	5 - 7; 20 g/l; 20 °C
Melting point/range	ca. 2 °C; DIN ISO 3841

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Flash point	ca. 120 °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. 1.0 g/cm ³ ; 20 °C; DIN 51757
Water solubility	20 °C; completely miscible
Partition coefficient: n-octanol/water	Not applicable
Ignition temperature	ca. 370 °C; DIN 51794
Viscosity, dynamic	ca. 90 mPas; 20 °C
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity**Note** No decomposition if stored and applied as directed.**10.2 Chemical stability****Note** Stable under normal conditions.**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.**Thermal decomposition** Stable under normal conditions.
Hazardous decomposition products formed under fire conditions.

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SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity	Alcohols, C10-12, ethoxylated, propoxylated: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Alcohols, C10-12, ethoxylated, propoxylated: No data available Negligible or unlikely exposure pathways
Acute dermal toxicity	Alcohols, C10-12, ethoxylated, propoxylated: No data available

Skin corrosion/irritation

Skin irritation	Alcohols, C10-12, ethoxylated, propoxylated: Rabbit: not irritating; OECD Test Guideline 404 Based on available data, the classification criteria are not met.
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Serious eye damage/eye irritation

Eye irritation	Alcohols, C10-12, ethoxylated, propoxylated: Rabbit: irritating; OECD Test Guideline 405 Causes serious eye irritation.
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Respiratory or skin sensitisation

Sensitisation	Alcohols, C10-12, ethoxylated, propoxylated: not expected based on structure and functional groups
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Germ cell mutagenicity

Genotoxicity in vitro	Alcohols, C10-12, ethoxylated, propoxylated: Ames test; Salmonella typhimurium; with and without metabolic activation: Non mutagenic; OECD Test Guideline 471
Genotoxicity in vivo	Alcohols, C10-12, ethoxylated, propoxylated: No data available
Remarks	Alcohols, C10-12, ethoxylated, propoxylated: Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Alcohols, C10-12, ethoxylated, propoxylated: This information is not available.
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Reproductive toxicity

Reproductive toxicity	Alcohols, C10-12, ethoxylated, propoxylated: This information is not available.
Teratogenicity	Alcohols, C10-12, ethoxylated, propoxylated: This information is not available.

STOT - single exposure

Remarks	Alcohols, C10-12, ethoxylated, propoxylated: The substance or mixture is not classified as specific target organ toxicant, single exposure.
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STOT - repeated exposure

Repeated dose toxicity	Alcohols, C10-12, ethoxylated, propoxylated:
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This information is not available.

Aspiration hazard**Aspiration toxicity**Alcohols, C10-12, ethoxylated, propoxylated:
Not applicable**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Toxicity to fish**Alcohols, C10-12, ethoxylated, propoxylated:
No data available**Toxicity to fish - Chronic toxicity**Alcohols, C10-12, ethoxylated, propoxylated:
No data available**Toxicity to daphnia and other aquatic invertebrates**Alcohols, C10-12, ethoxylated, propoxylated:
EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l ; static test; OECD Test Guideline 202**Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity**Alcohols, C10-12, ethoxylated, propoxylated:
No data available**Toxicity to aquatic plants**Alcohols, C10-12, ethoxylated, propoxylated:
EC10 (72 h) Desmodesmus subspicatus (green algae): > 1 - 10 mg/l ; Growth rate; static test; OECD Test Guideline 201Alcohols, C10-12, ethoxylated, propoxylated:
EC50 (72 h) Desmodesmus subspicatus (green algae): > 10 - 100 mg/l ; Growth rate; static test; OECD Test Guideline 201**Toxicity to bacteria**Alcohols, C10-12, ethoxylated, propoxylated:
EC50 (17 h) Pseudomonas putida: > 10,000 mg/l; Cell multiplication inhibition test; ISO 10712**Toxicity to soil dwelling organisms**Alcohols, C10-12, ethoxylated, propoxylated:
LC50 (96 h) Eisenia fetida (earthworms): > 1,000 mg/kg; mortality; artificial soil**Toxicity to terrestrial flora**Alcohols, C10-12, ethoxylated, propoxylated:
No data available**Toxicity for other terrestrial non-mammalian fauna**Alcohols, C10-12, ethoxylated, propoxylated:
No data available**12.2 Persistence and degradability****Biodegradability**Alcohols, C10-12, ethoxylated, propoxylated:
Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B**12.3 Bioaccumulative potential****Bioaccumulation**Alcohols, C10-12, ethoxylated, propoxylated:
No data available**12.4 Mobility in soil****Mobility**Alcohols, C10-12, ethoxylated, propoxylated:
No data available**12.5 Results of PBT and vPvB assessment**

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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, C10-12, ethoxylated, propoxylated:
Based on available data, the classification criteria are not met.

12.6 Other adverse effects

General advice Alcohols, C10-12, ethoxylated, propoxylated:
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 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

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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.

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 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, C10-12 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) (CAS: 68154-97-2)**

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.**

H319 Causes serious eye irritation.

Safety datasheet sections which have been updated:

2. Hazards identification
3. Composition/information on ingredients
6. Accidental release measures
8. Exposure controls/personal protection
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