

**MARLINAT K23M**

Version: 1.03

Revision Date 2017/11/21

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

Trade name                                      **Marlinat K23M**

REACH No.

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

Use    Industrial use  
    Oilfield

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)**

Skin irritation Category 2                                      Causes skin irritation.  
Serious eye damage Category 1                                      Causes serious eye damage.

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

Signal word    Danger

Hazard statements

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H315 Causes skin irritation.  
H318 Causes serious eye damage.

**Precautionary statements**

P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.

**Hazardous components which must be listed on the label:**

- Alcohols, C8-10, even numbered, ethoxylated ( $\geq 2.5$  EO), sulfated, monoisopropanolamine salts

**2.3 Other hazards**

No hazards to be specially mentioned.

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

This product is a mixture 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, C8-10, even numbered, ethoxylated ( $\geq 2.5$  EO), sulfated, monoisopropanolamine salts**

content:  $> 30 - \leq 70$  %

component type: Active ingredient

EC-No.: Index-No.:  
REACH No.: Not relevant (polymer)

CAS-No.:

Classification (Regulation (EC) No 1272/2008): Skin Irrit. 2 H315  
Eye Dam. 1 H318

**Substances for which maximum allowable workplace concentrations have been laid down****Propane-1,2-diol**

content:  $\geq 20 - < 30$  %

component type: Active ingredient

EC-No.: 200-338-0 Index-No.:  
REACH No.: 01-2119456809-23-XXXX

CAS-No.: 57-55-6

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.

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<b>If inhaled</b>	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off immediately with plenty of water. Consult a physician.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed</b>	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**

<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms: No information available. Risks: No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: No information available.
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**SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Water spray, Dry powder, Foam, 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.
<b>Further information</b>	Standard procedure for chemical fires.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

<b>Personal precautions</b>	Use personal protective equipment.
<b>Special precautions</b>	Forms slippery/greasy layers with water.

**6.2 Environmental precautions**

<b>Environmental precautions</b>	No special environmental precautions required.
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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.

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**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

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

**7.2 Conditions for safe storage, including any incompatibilities**

<b>Requirements for storage areas and containers</b>	No special storage conditions required.
<b>Further information on storage conditions</b>	Optimal storage temperature is between 20°C and 30°C. Store under inert gas (nitrogen).
<b>Storage class (TRGS 510)</b>	10-13: German Storage Class 10 to 13

**7.3 Specific end use(s)**

<b>Specific use(s)</b>	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**

Control parameters / Substance name	Typ	Control parameters	Update	Basis
PROPANE-1,2-DIOL, PARTICULATES	TWA	10 mg/m <sup>3</sup>	12 2011	EH40 WEL
PROPANE-1,2-DIOL, TOTAL VAPOUR AND PARTICULATES	TWA TWA	474 mg/m <sup>3</sup> 150 ppm	12 2011 12 2011	EH40 WEL

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

**DERIVED NO EFFECT LEVEL (DNEL)****Substance name:** Alcohols, C8-10, even numbered, ethoxylated ( $\geq 2.5$  EO), sulfated, monoisopropanolamine salts

No data available

**PREDICTED NO EFFECT CONCENTRATION (PNEC)****Substance name:** Alcohols, C8-10, even numbered, ethoxylated ( $\geq 2.5$  EO), sulfated, monoisopropanolamine salts

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No data available

**8.2 Exposure controls****PERSONAL PROTECTIVE EQUIPMENT**

<b>Respiratory protection</b>	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.
<b>Hand protection</b>	<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><b>gloves suitable for permanent contact:</b> Material: butyl-rubber Break through time: <math>\geq</math> 480 min Layer thickness: <math>\geq</math> 0.7 mm</p> <p><b>gloves suitable for splash protection:</b> Material: Nitrile rubber/nitrile latex Break through time: <math>\geq</math> 30 min Layer thickness: <math>\geq</math> 0.4 mm</p>
<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Wear suitable protective equipment.
<b>Hygiene measures</b>	Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.
<b>Protective measures</b>	Avoid contact with eyes. Wear suitable gloves and eye/face protection.

**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	No special environmental precautions required.
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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Form</b>	liquid
<b>Colour</b>	colorless to yellow
<b>Odour</b>	characteristic

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<b>Odour Threshold</b>	No valid method available
<b>pH</b>	ca. 8 - 9; 10 g/l; DIN EN 1262
<b>pour point</b>	< -20 °C
<b>Boiling point/boiling range</b>	No data available
<b>Sublimation point</b>	No data available
<b>Flash point</b>	> 100 °C
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not applicable (liquid)
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	< 1 hPa; 20 °C
<b>Relative vapour density</b>	> 1
<b>Density</b>	1.07 g/cm <sup>3</sup> ; 25 °C
<b>Water solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	not applicable (mixture)
<b>Ignition temperature</b>	No data available
<b>Auto-ignition temperature</b>	not auto-flammable
<b>Viscosity, dynamic</b>	ca. 400 mPas; 25 °C
<b>Explosive properties</b>	not expected based on structure and functional groups
<b>Oxidizing properties</b>	not expected based on structure and functional groups
<b>9.2 Other data</b>	
<b>Additional advice</b>	no data

**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

<b>Note</b>	Stable under recommended storage conditions.
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**10.2 Chemical stability**

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

<b>Hazardous reactions</b>	No decomposition if stored and applied as directed.
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**10.4 Conditions to avoid**

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

<b>Materials to avoid</b>	Strong acids and oxidizing agents;
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**10.6 Hazardous decomposition products****Hazardous decomposition products**

No decomposition if used as directed.

**SECTION 11: TOXICOLOGICAL INFORMATION**

The product/preparation has not been tested. The product/preparation has been evaluated based on the single components.

**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

Acute toxicity estimate : > 2,000 mg/kg; Calculation method  
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity**

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

**Acute dermal toxicity**

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

**Skin corrosion/irritation****Skin irritation**

Causes skin irritation.

**Serious eye damage/eye irritation****Eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation****Sensitisation**

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

**Germ cell mutagenicity****Remarks**

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

**Carcinogenicity****Carcinogenicity**

This information is not available.

**Reproductive toxicity****Reproductive toxicity**

This information is not available.

**Teratogenicity**

This information is not available.

**STOT - single exposure****Remarks**

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

**STOT - repeated exposure****Remarks**

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

**Repeated dose toxicity**

This information is not available.

**Aspiration hazard****Aspiration toxicity**

Not applicable

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**SECTION 12: ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

<b>Toxicity to fish</b>	The product/preparation has not been tested. The product/preparation has been evaluated based on the single components.
<b>Toxicity to daphnia and other aquatic invertebrates</b>	The product/preparation has not been tested. The product/preparation has been evaluated based on the single components.
<b>Toxicity to aquatic plants</b>	The product/preparation has not been tested. The product/preparation has been evaluated based on the single components.

**12.2 Persistence and degradability**

<b>Biodegradability</b>	Readily biodegradable. The product/preparation has not been tested. The product/preparation has been evaluated based on the single components.
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**12.3 Bioaccumulative potential**

<b>Bioaccumulation</b>	Bioaccumulation is unlikely. The product/preparation has not been tested. The product/preparation has been evaluated based on the single components.
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**12.4 Mobility in soil**

<b>Mobility</b>	No data available
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**12.5 Results of PBT and vPvB assessment**

<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.
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**12.6 Other adverse effects**

<b>General advice</b>	None known.
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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

<b>Product</b>	Can be incinerated, when in compliance with local regulations.
<b>waste code of the European Union: EWC</b>	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.

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**SECTION 14: TRANSPORT INFORMATION**

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**14.1 UN number**

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

**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**

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**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	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	not listed (product or constituents are not listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	not listed (product or constituents are not listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	not listed (product or constituents are not listed)
Japan. Kashin-Hou Law List	ENCS (JP)	not listed (product or constituents are not listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	not listed (product or constituents are not listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	not listed (product or constituents are not 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)	not listed (product or constituents are not 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.

**Convention for the Protection of the Marine Environment of the North-East Atlantic (OSPAR Convention)**

Country: GB (Great Britain); Notification number: 26642

Registered for the use in offshore-applications (according to "OSPAR Decision 2000/2 on a Harmonised Mandatory Control System for the Use and Discharge of Offshore Chemicals (as amended by OSPAR Decision 2005/1)")

Country: NL (Netherlands); Notification number: 26642

Registered for the use in offshore-applications (according to "OSPAR Decision 2000/2 on a Harmonised Mandatory Control System for the Use and Discharge of Offshore Chemicals (as amended by OSPAR Decision 2005/1)")

Country: DK (Denmark); Notification number: 2465363

Registered for the use in offshore-applications (according to "OSPAR Decision 2000/2 on a Harmonised Mandatory Control System for the Use and Discharge of Offshore Chemicals (as amended by OSPAR Decision 2005/1)")

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**Alcohols, C8-10, even numbered, ethoxylated ( $\geq 2.5$  EO), sulfated, monoisopropanolamine salts**

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.**

H315	Causes skin irritation.
H318	Causes serious eye damage.

**Safety datasheet sections which have been updated:**

- 2. Hazards identification
- 3. Composition/information on ingredients
- 7. Handling and storage
- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 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



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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

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