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

1.1 Product identifier

Trade name MARLOWET 4560

Substance name (REACH / CLP) Alcohols, C16-18 (even numbered), ethoxylated, propoxylated,

carboxymethylated (>= 2.5 moles EO/PO)

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

Use Industrial use emulsifying agent

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company SASOL Germany GmbH

Anckelmannsplatz 1 20537 Hamburg Germany

Cermany

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 protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/ doctor.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

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

2.3 Other hazards

None known.

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

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

content: >= 90 - <= 100 % component type: Active ingredient

EC-No.: 932-105-0 **Index-No.**: **CAS-No.**: 1285518-75-3

REACH No.: Not relevant (polymer)

Substance name (REACH / CLP): Alcohols, C16-18 (even numbered), ethoxylated, propoxylated,

carboxymethylated (>= 2.5 EO/PO)

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

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

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.



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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

 $\label{thm:constraints} \mbox{Symptoms: No information available.}$

Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special

treatment needed

Treatment: No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, Dry powder, Foam, 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 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

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



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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

Storage class (TRGS 510)

No special storage conditions required.

and containers

10: Combustible liquids not in Storage Class 3

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

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Alcohols, C16-18 (even numbered), ethoxylated, propoxylated, carboxymethylated (>= 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



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ABEK-P2), in compliance with EN 141.

Hand protection Material: butyl-rubber

Break through time: >= 480 min Glove thickness: >= 0.7 mm

Material: Nitrile rubber Break through time: >= 30 min Glove thickness: >= 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).

Eye protection Safety glasses with side-shields

Skin and body protection Wear suitable protective equipment.

Hygiene measures Avoid contact with eyes. Handle in accordance with good industrial hygiene and

safety practice. Keep away from food, drink and animal feedingstuffs.

Protective measures Avoid contact with eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state liquid; 20 °C; 1,013 hPa

Form liquid
Colour yellow
Odour neutral

Odour Threshold No valid method available.

pH 2 - 3

Melting point/rangeNo data availableBoiling point/boiling rangeNot applicableFlash pointNo data availableEvaporation rateNo data availableFlammability (solid, gas)not applicable (liquid)

Lower explosion limit No data available



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Upper explosion limitNo data available **Vapour pressure**< 0.1 hPa; 20 °C

Relative vapour density > 1

Density ca.1 g/cm3; 20 °C

Water solubility dispersible

Partition coefficient: n- Not relevant / Not applicable

octanol/water Justification: surface-active substance

 Ignition temperature
 No data available

 Auto-ignition temperature
 not auto-flammable

 Viscosity, dynamic
 No data available

Explosive properties Constituents do not contain chemical groups associated with explosivity.

Oxidizing properties not expected based on structure and functional groups

9.2 Other data

Additional advice no data

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions No hazards to be specially mentioned.

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.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401



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Category approach

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

Acute inhalation toxicity Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Acute dermal toxicity Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Skin corrosion/irritation

Skin irritation Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

Rabbit: irritating; OECD Test Guideline 404

Category approach Causes skin irritation.

Serious eye damage/eye irritation

Eye irritation Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

Rabbit: Irreversible effects on the eye; OECD Test Guideline 405

Category approach

Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

not expected based on structure and functional groups

Germ cell mutagenicity

Genotoxicity in vitro Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

not expected based on structure and functional groups

Genotoxicity in vivo Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Carcinogenicity

Carcinogenicity Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

This information is not available.

Reproductive toxicity

Reproductive toxicity Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

This information is not available.

Teratogenicity Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

This information is not available.

STOT - single exposure

Remarks Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

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

exposure.

STOT - repeated exposure

Repeated dose toxicity Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

This information is not available.

Aspiration hazard

Aspiration toxicity Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

Not applicable



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Toxicity to fish - Chronic

toxicity

Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Toxicity to daphnia and other

aquatic invertebrates

Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Toxicity to daphnia and other aquatic invertebrates - Chronic

toxicity

Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Toxicity to aquatic plants Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Toxicity to bacteria Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

Toxicity to soil dwelling

organisms

Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

The study is not necessary.

Justification:

Readily biodegradable.

Toxicity to terrestrial flora Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

The study is not necessary.

Justification:

Readily biodegradable.

Toxicity for other terrestrial

non-mammalian fauna

Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

The study is not necessary.

Justification:

Readily biodegradable.

12.2 Persistence and degradability

Biodegradability Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

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

Category approach

12.3 Bioaccumulative potential

Bioaccumulation Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

No data available

12.4 Mobility in soil

Mobility Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

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 Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

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

12.6 Other adverse effects

General advice Alcohol, C16-18, ethoxylated, propoxylated (>= 2.5 EO/PO), carboxymethylated:

None known.



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Endocrine disrupting potential 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 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

Waste Code 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



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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



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NOTIFICATION STATUS		
Australian Inventory of Industrial Chemicals	ZAU_AIIC	not listed (product or constituents are not listed)
Canadian Domestic Substances List (DSL)	DSL	not listed (product or constituents are not 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	not listed (product or constituents are not listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	not listed (product or constituents are not listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	not listed (product or constituents are not listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	not listed (product or constituents are not listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	not listed (product or constituents are not listed)
United States TSCA Inventory	TSCA	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.

15.2 Chemical safety assessment

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

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
- 4. First aid measures
- 5. Firefighting measures
- 6. Accidental release measures
- 8. Exposure controls/personal protection
- 10. Stability and reactivity



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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 ADR Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

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 Domestic Substances List DSL EC.. Effect concentration ... %

ENCS Existing Notified Chemical Substances (Japan)

FWC

European Waste Catalogue International Air Transport Association IATA IBC Intermediate Bulk Container ICAO International Civil Aviation Organization **IMDG** International Maritime Dangerous Goods International Maritime Organization IMO ISHL Industrial Safety and Health Law (Japan) International Organization for Standardization ISO IUAPC International Union of Pure and Applied Chemistry

KECI Korea Existing Chemicals Inventory

LC... Lethal Concentration, ...%

ΙD Lethal Dose %

International Convention for the Prevention of Pollution From Ships MARPOL

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

Technische Regeln für Gefahrstoffe **TRGS** TSCA Toxic Substances Control Act vPvB very persistent, very bioaccumulative Wassergefährdungsklasse WGK