

**MARLOWET 4538**

Version: 7.07

Revision Date 2019/11/29

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

<b>Trade name</b>	<b>Marlowet 4538</b>
<b>Substance name (REACH / CLP)</b>	Isotridecanol, ethoxylated ( $\geq 2.5$ moles EO), carboxymethylated (CAS: 68412-55-5)

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

<b>Use</b>	Industrial use emulsifying agent surface-active substance
<b>Uses advised against</b>	

**1.3 Details of the supplier of the safety data sheet**

<b>Company</b>	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg Germany
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
<b>Information (Product safety):</b>	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
<b>E-mail address</b>	msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

<b>Emergency telephone number</b>	+ 49 (0) 23 65 - 49 22 32
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**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

<b>Classification (REGULATION (EC) No 1272/2008)</b>	
Serious eye damage Category 1	Causes serious eye damage.

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

Danger

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**Hazard statements**

H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear eye protection/ face protection.  
 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.

**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****isotridecanol, ethoxylated, carboxymethylated****content:** >= 90 - <= 100 %**component type:** Active ingredient**EC-No.:** 935-862-5**Index-No.:****CAS-No.:** 68412-55-5**REACH No.:** Not relevant (polymer)**Substance name (REACH / CLP):** isotridecanol, ethoxylated (>= 2.5 moles EO), carboxymethylated (CAS: 68412-55-5)**Classification (Regulation (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**

<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.
<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 for at least 15 minutes. 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. Protect unharmed eye.
<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****Most important symptoms and** Symptoms: No information available.

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effects, both acute and delayed 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. In the event of fire and/or explosion do not breathe fumes. Exposure to decomposition products may be a hazard to health.

**5.3 Advice for firefighters**

Special protective equipment for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Further information Cool closed containers exposed to fire with water spray. 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.

**6.2 Environmental precautions**

Environmental precautions Should not be released into the environment.

**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 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**

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**Requirements for storage areas and containers** No special storage conditions required.

**Storage class (TRGS 510)** 12: Non Combustible Liquids

**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**

No data available

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

**Derived No Effect Level (DNEL)**

No data available

**Predicted No Effect Concentration (PNEC)**

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:  $\geq$  480 min  
Layer thickness:  $\geq$  0.7 mm

**gloves suitable for splash protection:**

Material: Nitrile rubber/nitrile latex  
Break through time:  $\geq$  30 min  
Layer thickness:  $\geq$  0.4 mm

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<b>Eye protection</b>	Tightly fitting safety goggles
<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. Wear suitable gloves and eye/face protection.
<b>Protective measures</b>	Avoid contact with eyes. Wear suitable gloves and eye/face protection.

### ENVIRONMENTAL EXPOSURE CONTROLS

<b>General advice</b>	Should not be released into the environment.
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid; 20 °C; 1,013 hPa
<b>Form</b>	liquid
<b>Colour</b>	cloudy
<b>Odour</b>	mild
<b>Odour Threshold</b>	No valid method available.
<b>pH</b>	ca. 3; 10 g/l; 20 °C
<b>Melting point/range</b>	> -20 °C
<b>Boiling point/boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable
<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>	< 0.1 hPa; 20 °C
<b>Relative vapour density</b>	No data available
<b>Density</b>	ca.1.0 g/cm <sup>3</sup> ; 20 °C
<b>Relative density</b>	No data available
<b>Water solubility</b>	completely miscible
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Ignition temperature</b>	ca. 380 °C; DIN 51794
<b>Auto-ignition temperature</b>	not auto-flammable
<b>Viscosity, dynamic</b>	No data available
<b>Explosive properties</b>	Constituents do not contain chemical groups associated with explosivity.

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**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.

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

**Acute oral toxicity** isotridecanol, ethoxylated, carboxymethylated:  
LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401  
own test results/literature values  
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity** isotridecanol, ethoxylated, carboxymethylated:  
No data available

**Acute dermal toxicity** isotridecanol, ethoxylated, carboxymethylated:  
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

**Skin corrosion/irritation**

**Skin irritation** isotridecanol, ethoxylated, carboxymethylated:  
Rabbit: slightly irritating; OECD Test Guideline 404  
own test results/literature values  
Based on available data, the classification criteria are not met.

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

isotridecanol, ethoxylated, carboxymethylated:  
Rabbit: Irreversible effects on the eye; OECD Test Guideline 405  
own test results/literature values  
Causes serious eye damage.

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

isotridecanol, ethoxylated, carboxymethylated:  
Buehler Test Guinea pig: not sensitizing; OECD Test Guideline 406  
The data are derived from the evaluations or test results achieved with similar  
products (conclusion by analogy).  
Test substance: Alcohols, C12-14, ethoxylated, carboxymethylated  
Based on available data, the classification criteria are not met.

**Germ cell mutagenicity****Genotoxicity in vitro**

isotridecanol, ethoxylated, carboxymethylated:  
Ames test; Salmonella typhimurium; with and without metabolic activation: Non  
mutagenic  
(literature value)  
Category approach

**Remarks**

isotridecanol, ethoxylated, carboxymethylated:  
Based on available data, the classification criteria are not met.

**Carcinogenicity****Carcinogenicity**

isotridecanol, ethoxylated, carboxymethylated:  
This information is not available.

**Reproductive toxicity****Effects on fertility**

isotridecanol, ethoxylated, carboxymethylated:  
No data available

**Effects on foetal  
development**

isotridecanol, ethoxylated, carboxymethylated:  
No data available

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

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

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

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

**Repeated dose toxicity**

isotridecanol, ethoxylated, carboxymethylated:  
No data available

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

isotridecanol, ethoxylated, carboxymethylated:  
Not applicable

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**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

<b>Toxicity to fish</b>	isotridecanol, ethoxylated, carboxymethylated: No data available
<b>Toxicity to daphnia and other aquatic invertebrates</b>	isotridecanol, ethoxylated, carboxymethylated: EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l ; static test; OECD Test Guideline 202
<b>Toxicity to aquatic plants</b>	isotridecanol, ethoxylated, carboxymethylated: No data available
<b>Toxicity to bacteria</b>	isotridecanol, ethoxylated, carboxymethylated: No data available

**12.2 Persistence and degradability**

<b>Biodegradability</b>	isotridecanol, ethoxylated, carboxymethylated: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
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**12.3 Bioaccumulative potential**

<b>Bioaccumulation</b>	isotridecanol, ethoxylated, carboxymethylated: No data available
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**12.4 Mobility in soil**

<b>Mobility</b>	isotridecanol, ethoxylated, carboxymethylated: 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.
<b>Results of PBT assessment</b>	isotridecanol, ethoxylated, carboxymethylated: 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).

**12.6 Other adverse effects**

<b>General advice</b>	isotridecanol, ethoxylated, carboxymethylated: None known.
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**SECTION 13: DISPOSAL CONSIDERATIONS****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****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.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Remarks	No information available.
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**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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**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** The surfactant(s) contained in this preparation complies (comply) 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.

### NOTIFICATION STATUS

Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	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. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	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)

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

**isotridecanol, ethoxylated (>= 2.5 moles EO), carboxymethylated (CAS: 68412-55-5)**

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.

H318 Causes serious eye damage.

### Safety datasheet sections which have been updated:

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
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



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