

Version: 5.09 Revision Date 2018/09/07

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

1.1 Product identifier

Trade name MARLIPAL O 13/120

INCI Trideceth-12

Substance name (REACH / CLP) Isotridecanol, ethoxylated (>=2.5 EO)(CAS#: 69011-36-5)

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

Use Industrial use

raw material for cosmetic agents

raw material for washing and cleaning agents raw material for textile auxiliary agents

surface-active substance

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)

Acute toxicity Category 4 (Oral) Harmful if swallowed.
Serious eye damage Category 1 Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







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Signal word Danger

Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements

P264 Wash face, hands and any exposed skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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.

P330 Rinse mouth.

2.3 Other hazards

Danger of slipping after spill or leakage. 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.

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 (>= 2.5 EO)

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

EC-No.: 931-138-8 **Index-No.**: **CAS-No.**: 69011-36-5

REACH No.: Not relevant (polymer)

 Classification (Regulation (EC) No 1272/2008):
 Acute Tox.
 4 (Oral)
 H302

 Eye Dam.
 1
 H318

Specific Concentration Limits (see section 11)

> 10 % Eye Dam. Category 1; H318 > 1 - 10 % Eye Irrit. Category 2; H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

Other data Synonyms: isotridecanol, ethoxylated; CAS-No.: 9043-30-5

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).



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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 if necessary.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If swallowed Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

Call a physician immediately.

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

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.

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

Use mechanical handling equipment. The material taken up must be disposed of in

accordance with regulations.

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.

Avoid contact with skin and eyes.

Advice on protection against

fire and explosion

Provide sufficient air exchange and/or exhaust in work rooms.

Keep away from heat and sources of ignition.

Fire-fighting class B: Fires involving liquids or liquid containing substances. Also includes substances

which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

Keep tightly closed in a dry and cool place.

Storage class (TRGS 510) 11: Combustible Solids

Other data Stable at normal ambient temperature and pressure.

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

ENGINEERING MEASURES

If possible, use material transfer/filling, metering and blending plants that are closed.

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



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breathing apparatus or breathing apparatus with a combined filter (e.g. A-P2 or

ABEK-P2), in compliance with EN 141.

The choice of an appropriate glove does not only depend on its material but also Hand protection

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

Eye protection Tightly fitting safety goggles, Safety glasses with side-shields

Skin and body protection Protective suit

Hygiene measures Avoid contact with eyes. General industrial hygiene practice. Handle in accordance

with good industrial hygiene and safety practice. Keep away from food, drink and

animal feedingstuffs. When using, do not eat, drink or smoke.

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

ENVIRONMENTAL EXPOSURE CONTROLS

General advice Avoid subsoil penetration.

Water 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 solid; 20 °C; 1,013 hPa

Form liquid, pasty Colour cloudy Odour mild

Odour Threshold No valid method available

pН 5 - 7; 20 g/l; 20 °C

Melting point/range ca. 20 °C

Flash point > 180 °C; DIN 51376

Not relevant / not applicable **Evaporation rate**

Justification: Solid



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Flammability (solid, gas) No data available

Lower explosion limitNo data availableUpper explosion limitNo data availableVapour pressure< 0.1 hPa; 20 °C</th>Relative vapour densityNo data availableDensityca.1.00 g/cm3; 50 °CRelative densityNo data available

Water solubility 20 °C; completely miscible

Partition coefficient: n-

octanol/water

No data available

Ignition temperature ca. 360 °C; DIN 51794

Auto-ignition temperature Not applicable

solid with a melting point < 160°C

Viscosity, dynamic ca. 40 mPas; 50 °C

Explosive properties not expected based on structure and functional groups

Oxidizing properties No data available

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

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 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 isotridecanol, ethoxylated (>= 2.5 EO):

LD50 Rat: > 300 - 2,000 mg/kg

Category approach

own test results/literature values

Harmful if swallowed.

Acute inhalation toxicity isotridecanol, ethoxylated (>= 2.5 EO):

No data available

Acute dermal toxicity isotridecanol, ethoxylated (>= 2.5 EO):

LD50 Rabbit: > 2,000 mg/kg;

Category approach (literature value)

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

Skin corrosion/irritation

Skin irritation isotridecanol, ethoxylated (>= 2.5 EO):

Rabbit: not irritating

own test results/literature values

Category approach

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

Serious eye damage/eye irritation

Eye irritation isotridecanol, ethoxylated (>= 2.5 EO):

Rabbit: Irreversible effects on the eye

Category approach

own test results/literature values Causes serious eye damage.

isotridecanol, ethoxylated (>= 2.5 EO):

Category approach
Test substance: 10% dilution
Causes serious eye irritation.

Respiratory or skin sensitisation

Sensitisation isotridecanol, ethoxylated (>= 2.5 EO):

Maximisation Test Guinea pig: not sensitizing

Category approach (literature value)

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

Germ cell mutagenicity

Genotoxicity in vitro isotridecanol, ethoxylated (>= 2.5 EO):

In vitro tests did not show mutagenic effects

Category approach

own test results/literature values

Genotoxicity in vivo isotridecanol, ethoxylated (>= 2.5 EO):

In vivo tests did not show mutagenic effects

Category approach (literature value)

Remarks isotridecanol, ethoxylated (>= 2.5 EO):

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

Carcinogenicity

Carcinogenicity isotridecanol, ethoxylated (>= 2.5 EO):

The substance has been shown to be not genotoxic, therefore it is not expected to



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have a carcinogenic potential.

Category approach (literature value)

Remarks isotridecanol, ethoxylated (>= 2.5 EO):

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

Reproductive toxicity

Reproductive toxicity isotridecanol, ethoxylated (>= 2.5 EO):

Animal testing did not show any effects on fertility.

Category approach (literature value)

RemarksReproductive

toxicity

isotridecanol, ethoxylated (>= 2.5 EO):

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

Teratogenicity isotridecanol, ethoxylated (>= 2.5 EO):

Did not show teratogenic effects in animal experiments.

Category approach (literature value)

Remarks-Teratogenicity isotridecanol, ethoxylated (>= 2.5 EO):

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

STOT - single exposure

Remarks isotridecanol, ethoxylated (>= 2.5 EO):

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

exposure.

STOT - repeated exposure

Remarks isotridecanol, ethoxylated (>= 2.5 EO):

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

repeated exposure.

Repeated dose toxicity isotridecanol, ethoxylated (>= 2.5 EO):

Rat; Oral; 2 years

NOAEL: 50 mg/kg (based on body weight and day)

Target Organs: Heart, Liver, Kidney

Symptoms: reduced body weight gain, increased relative organ weights

Category approach (literature value)

Aspiration hazard

Aspiration toxicity isotridecanol, ethoxylated (>= 2.5 EO):

Not applicable

Toxicological information isotridecanol, ethoxylated (>= 2.5 EO):

Toxicokinetics Category approach

The substance is expected to be rapidly absorbed and excreted.

(literature value)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish isotridecanol, ethoxylated (>= 2.5 EO):

LC50 (96 h) Cyprinus carpio (Carp): > 10 - 100 mg/l; flow-through test; OECD

Test Guideline 203



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Category approach

own test results/literature values

Toxicity to daphnia and other

aquatic invertebrates

isotridecanol, ethoxylated (>= 2.5 EO):

EC50 (48 h) Daphnia magna (Water flea): > 10 - 100 mg/l; static test; OECD Test

Guideline 202 Category approach

own test results/literature values

Toxicity to daphnia and other aquatic invertebrates - Chronic

toxicity

isotridecanol, ethoxylated (>= 2.5 EO): EC10 (21 d) Daphnia magna (Water flea): 2.6 mg/l; reproduction rate; semi-static

test; OECD Test Guideline 211

Toxicity to aquatic plants isotridecanol, ethoxylated (>= 2.5 EO):

EC50 (72 h) Desmodesmus subspicatus (green algae): > 10 - 100 mg/l; static test;

OECD Test Guideline 201; Category approach

own test results/literature values

isotridecanol, ethoxylated (>= 2.5 EO):

EC10 (72 h) Desmodesmus subspicatus (green algae): > 1 - 10 mg/l; static test;

OECD Test Guideline 201; Category approach

own test results/literature values

Toxicity to bacteria isotridecanol, ethoxylated (>= 2.5 EO):

EC50 activated sludge: 140 mg/l; Respiration inhibition

Category approach (literature value)

Toxicity to soil dwelling

organisms

isotridecanol, ethoxylated (>= 2.5 EO):

NOEC Eisenia foetida: 220 mg/kg; reproduction rate; artificial soil

Category approach (literature value)

Toxicity to terrestrial flora isotridecanol, ethoxylated (>= 2.5 EO):

emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test

Guideline 208 Category approach

own test results/literature values

Toxicity for other terrestrial non-mammalian fauna

isotridecanol, ethoxylated (>= 2.5 EO):

No data available

12.2 Persistence and degradability

Biodegradability isotridecanol, ethoxylated (>= 2.5 EO):

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

Category approach

own test results/literature values isotridecanol, ethoxylated (>= 2.5 EO):

Biodegradable; > 60 %; 60 d; anaerobic; OECD Test Guideline 311

Category approach

12.3 Bioaccumulative potential

Bioaccumulation isotridecanol, ethoxylated (>= 2.5 EO):

Bioaccumulation is unlikely.

(literature value)

12.4 Mobility in soil

Mobility isotridecanol, ethoxylated (>= 2.5 EO):

Koc: > 5000 immobile

strong adsorption to soil (literature value)

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



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(vPvB) at levels of 0.1% or higher.

Results of PBT assessment isotridecanol, ethoxylated (>= 2.5 EO):

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

12.6 Other adverse effects

General advice isotridecanol, ethoxylated (>= 2.5 EO):

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

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
ADN Not dangerous goods
IMDG Not dangerous goods



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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

Ship type 2
Pollution category Y

Remarks MARPOL NAME: Alcohol (C12–C16) poly(7-19) ethoxylates

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 ST	ATUS
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Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	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. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are 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)	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 EO)

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.

H302 Harmful if swallowed. H318 Causes serious eye damage.

Safety datasheet sections which have been updated:

- 3. Composition/information on ingredients
- 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



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replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

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 Derived No-Effect Level DNEL Domestic Substances List DSL EC... Effect concentration ... %

ENCS Existing Notified Chemical Substances (Japan)

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

KECI Korea Existing Chemicals Inventory

LC... Lethal Concentration, ...% LD... MARPOL

Lethal Dose, ...%
International Convention for the Prevention of Pollution From Ships

Non-Domestic Substances List NDSL 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 Toxic Substances Control Act TSCA very persistent, very bioaccumulative

WGK Wassergefährdungsklasse