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

1.1 Product identifier

Trade name ISOFOL 20

INCI Octyldodecanol

 REACH No.
 01-2119488016-36-0000

 Substance name (REACH / CLP)
 2-octyldodecan-1-ol

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

raw material for synthesis processes in the chemical industry

raw material for lubricants and lubricant additives raw material for welding and soldering aids

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company SASOL Germany GmbH

Anckelmannsplatz 1 20537 Hamburg Germany

Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700

**Information (Product safety):** Telephone: + 49 (0) 23 65 - 49 47 05

Telefax: +49 (0) 23 65 -49 92 40

**E-mail address** msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number + 49 (0) 5 51 - 1 92 40 (GIZ-Nord Poisons Centre)

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

Not a hazardous substance or mixture.

#### 2.3 Other hazards

Danger of slipping after spill or leakage.



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

This product is a substance in the meaning of regulation (EC) 1907/2006.

#### **CHEMICAL CHARACTERIZATION**

2-octyldodecan-1-ol

component type: Active ingredient

EC-No.: 226-242-9 Index-No.: CAS-No.: 5333-42-6

**REACH No.**: 01-2119488016-36-0000

Substance name (REACH / CLP): 2-octyldodecan-1-ol

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

No hazardous ingredients

## **SECTION 4: FIRST AID MEASURES**

4.1 Description of first aid measures

General advice No hazards which require special first aid measures.

If inhaled Remove from exposure, lie down. If breathing is irregular or stopped, administer

artificial respiration. Monitor breathing, give oxygen if necessary. Consult a

In case of skin contact Take off all contaminated clothing immediately.

In case of eye contact Rinse with water.

If swallowed 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



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Specific hazards during

firefighting

Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Special protective equipment

for firefighters

Use personal protective equipment. Wear self-contained breathing apparatus for

firefighting if necessary.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Handle in accordance with good industrial hygiene and safety practice. Danger of

slipping after spill or leakage.

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**

7.1 Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

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

Advice on protection against

fire and explosion

The product is flammable but not readily ignited. Normal measures for preventive fire protection.

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

Storage class (TRGS 510) 10-13: German Storage Class 10 to 13

Other data Stable under normal conditions.

7.3 Specific end use(s)

**Specific use(s)** This information is not available.



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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### **COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

National occupational exposure limits

No data available

#### **EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

#### **DERIVED NO EFFECT LEVEL (DNEL)**

Substance name: 2-octyldodecan-1-ol

Not relevant / Not applicable

#### PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: 2-octyldodecan-1-ol

Not relevant / Not applicable

#### 8.2 Exposure controls

#### PERSONAL PROTECTIVE EQUIPMENT

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: Nitrile rubber/nitrile latex Break through time: >= 480 min Layer thickness: 0,35 mm

Material: butyl-rubber

Break through time: >= 480 min Layer thickness: 0,5 mm

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Eye protection Safety glasses

**Skin and body protection** Wear suitable protective equipment.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

**Protective measures** Avoid contact with the skin and the eyes.

#### **ENVIRONMENTAL EXPOSURE CONTROLS**

**General advice** Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.

### **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 colourless

Odour characteristic

Odour Threshold No valid method available.

**pH** Not applicable, Justification:, insoluble

Melting point/range ca. -4 - 1 °C

Initial boiling point and boiling

range

> 223 °C; 1.013 hPa

Flash point ca. > 170 °C; DIN 51758

Evaporation rate No data available

Flammability (solid, gas) not applicable (liquid)

Lower explosion limitNo data availableUpper explosion limitNo data availableVapour pressureca. < 0,01 hPa; 20 °C</th>

Relative vapour density > 1

**Density** ca.0,8 g/cm3; 20 °C; DIN 51757

Water solubility insoluble

Partition coefficient: n-

octanol/water

log Pow: > 8; 23 °C; pH: 7,1; OECD Test Guideline 117

Ignition temperature 258 °C

Viscosity, dynamic ca. 60 mPas; 20 °C

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

#### **EC-SAFETY DATA SHEET**



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Additional advice This sheet describes a group of products. It only contains safety-relevant data. For

specific data, see Product Information sheet.

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

Note Stable under recommended storage conditions.

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions Stable under normal conditions.

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 None known.;

10.6 Hazardous decomposition products

Thermal decomposition > 350 °C

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

**Acute toxicity** 

Acute oral toxicity 2-octyldodecan-1-ol:

LD50 Rat: > 5.000 mg/kg

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

Acute inhalation toxicity 2-octyldodecan-1-ol:

study scientifically unjustified

Data are available from alternate exposure routes.

Acute dermal toxicity 2-octyldodecan-1-ol:

LD50 Rabbit: > 2 ml/kg

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

Skin corrosion/irritation

Skin irritation 2-octyldodecan-1-ol:

Rabbit: slightly irritating

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

**Human experience -Skin** 

contact

2-octyldodecan-1-ol: Skin

not irritating

Serious eye damage/eye irritation



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**Eye irritation** 2-octyldodecan-1-ol:

Rabbit: slightly irritating

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

Respiratory or skin sensitisation

Sensitisation 2-octyldodecan-1-ol:

Maximisation Test Guinea pig: not sensitizing

(literature value)

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

Germ cell mutagenicity

Genotoxicity in vitro 2-octyldodecan-1-ol:

In vitro tests did not show mutagenic effects

(literature value) Category approach

**Genotoxicity in vivo** 2-octyldodecan-1-ol:

The study is not necessary.

In vitro tests did not show mutagenic effects

Category approach

Remarks 2-octyldodecan-1-ol:

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

Carcinogenicity

Carcinogenicity 2-octyldodecan-1-ol:

The study is not necessary.

Justification:

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

have a carcinogenic potential.

Reproductive toxicity

**Reproductive toxicity** 2-octyldodecan-1-ol:

Rat; Óral

NOAEL ((parents)): > 1.000 mg/kg (based on body weight and day) NOAEL (F1): > 1.000 mg/kg (based on body weight and day)

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy). Test substance: Docosan-1-ol

RemarksReproductive

toxicity

2-octyldodecan-1-ol:

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

**Teratogenicity** 2-octyldodecan-1-ol:

Rat; Oral

NOAEL: 1.000 mg/kg (based on body weight and day)

NOAEL (pregnant female): 1.000 mg/kg (based on body weight and day); OECD

Test Guideline 414

Did not show teratogenic effects in animal experiments.

2-octyldodecan-1-ol:

Rabbit; Oral

NOAEL: > 2.000 mg/kg (based on body weight and day)

NOAEL (pregnant female): > 2.000 mg/kg (based on body weight and day)

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy). Test substance: Docosan-1-ol

Remarks-Teratogenicity 2-octyldodecan-1-ol:

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

STOT - single exposure



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> Remarks 2-octyldodecan-1-ol:

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

exposure.

STOT - repeated exposure

Remarks 2-octyldodecan-1-ol:

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

repeated exposure.

Repeated dose toxicity 2-octyldodecan-1-ol:

Rat; Oral; Subchronic toxicity

NOAEL: 839,6 mg/kg (based on body weight and day)

(literature value)

**Aspiration hazard** 

Aspiration toxicity 2-octyldodecan-1-ol:

Not applicable

**Toxicological information** 2-octyldodecan-1-ol:

The substance is metabolised and excreted.

Bioaccumulation is unlikely.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

Toxicity to fish 2-octyldodecan-1-ol:

LC50 (48 h) Leuciscus idus (Golden orfe): > 100 mg/l; static test; DIN 38412

Category approach

Toxicity to fish - Chronic

toxicity

2-octyldodecan-1-ol: The study is not necessary.

Justification:

Substance is readily biodegradable and has a low aquatic toxicity.

Toxicity to daphnia and other

aquatic invertebrates

2-octyldodecan-1-ol:

EC50 (48 h) Daphnia magna (Water flea); static test; OECD Test Guideline 202

In the range of water solubility not toxic under test conditions.

Category approach 2-octyldodecan-1-ol:

Toxicity to daphnia and other aquatic invertebrates - Chronic

toxicity

The study is not necessary.

Justification:

Substance is readily biodegradable and has a low aquatic toxicity.

Toxicity to aquatic plants 2-octyldodecan-1-ol:

ErC50 (72 h) Desmodesmus subspicatus (green algae); static test; DIN 38412; In

the range of water solubility not toxic under test conditions.

Toxicity to bacteria 2-octyldodecan-1-ol:

EC0 (3 h) activated sludge of a predominantly domestic sewage: > 1.000 mg/l;

Respiration inhibition; OECD Test Guideline 209

Toxicity to soil dwelling

organisms

2-octyldodecan-1-ol: No data available

Toxicity to terrestrial flora

2-octyldodecan-1-ol: No data available

Toxicity for other terrestrial non-mammalian fauna

2-octyldodecan-1-ol: No data available



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12.2 Persistence and degradability

Biodegradability 2-octyldodecan-1-ol:

Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 310

12.3 Bioaccumulative potential

**Bioaccumulation** 2-octyldodecan-1-ol:

Bioconcentration factor (BCF): 53 - 539; calculated

(literature value)

Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility 2-octyldodecan-1-ol:

Adsorption/Soil/Sewage sludge; log Koc: 8,92 - 9,79; OECD Test Guideline 121

immobile

strong adsorption to soil

The substance and its relevant degradation products decompose rapidly.

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 2-octyldodecan-1-ol:

This substance is not considered to be persistent, bioaccumulating and toxic

(PBT)

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

12.6 Other adverse effects

General advice 2-octyldodecan-1-ol:

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** 

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



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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

# 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**

Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia Inventory of Chemical Substances (AICS)	AICS	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	TCSI	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

#### 15.2 Chemical safety assessment

## 2-octyldodecan-1-ol

A Chemical Safety Assessment has been carried out for this substance.

#### **SECTION 16: OTHER INFORMATION**

# Safety datasheet sections which have been updated:

- 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.



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#### 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 Internediate 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

# Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

#### 2-octyldodecan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000072\_EN\_01.pdf