

Version: 4.10 **Revision Date 2012/03/29**

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)

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

Use industrial use

raw material for cosmetic agents

2-octyldodecan-1-ol

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

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: msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number + 49 (0) 5 51 - 1 92 40

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Danger of slipping after spill or leakage.



Version: 4.10 Revision Date 2012/03/29

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 dangerous ingredients according to Regulation (EC) No. 1907/2006

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

physician.

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

Specific hazards during Dangerous gases or fumes may occur in case of fire.



Version: 4.10 **Revision Date 2012/03/29**

firefighting

5.3 Advice for firefighters

Special protective equipment

for firefighters

Use personal protective equipment. Wear self contained breathing apparatus for

fire fighting 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.

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

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 uses

Specific use(s) This information is not available.



Version: 4.10 Revision Date 2012/03/29

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)

2-octyldodecan-1-ol

Workers, dermal, Acute/short-term exposure - systemic effects:

Not relevant / not applicable

Workers, Inhalation, Acute/short-term exposure - systemic effects:

Not relevant / not applicable

Workers, dermal, Acute/short-term exposure - local effects:

Not relevant / not applicable

Workers, Inhalation, Acute/short-term exposure - local effects:

Not relevant / not applicable

Workers, dermal, long-term exposure - systemic effects: 35 mg/kg

based on body weight and day

Workers, Inhalation, long-term exposure - systemic effects: 247 mg/m3

Workers, dermal, long-term exposure - local effects:

Not relevant / not applicable

Workers, Inhalation, long-term exposure - local effects:

Not relevant / not applicable

Consumers, dermal, Acute/short-term exposure - systemic effects:

Not relevant / not applicable

Consumers, Inhalation, Acute/short-term exposure - systemic effects:

Not relevant / not applicable

Consumers, Oral, Acute/short-term exposure - systemic effects:

Not relevant / not applicable

Consumers, dermal, Acute/short-term exposure - local effects:

Not relevant / not applicable

Consumers, Inhalation, Acute/short-term exposure - local effects:

Not relevant / not applicable

Consumers, dermal, long-term exposure - systemic effects: 21 mg/kg

based on body weight and day

Consumers, Inhalation, long-term exposure - systemic effects: 73 mg/m3

Consumers, Oral, long-term exposure - systemic effects: 21 mg/kg

based on body weight and day

Consumers, dermal, long-term exposure - local effects:

Not relevant / not applicable

Consumers, Inhalation, long-term exposure - local effects:

Not relevant / not applicable



Version: 4.10 Revision Date 2012/03/29

PREDICTED NO EFFECT CONCENTRATION (PNEC)

2-octyldodecan-1-ol Fresh water:

Not relevant / not applicable

Marine water:

Not relevant / not applicable

intermittent release:

Not relevant / not applicable

treatment plant:

Not relevant / not applicable Fresh water sediment: Not relevant / not applicable

Marine sediment:

Not relevant / not applicable

Soil:

Not relevant / not applicable

food:

Not relevant / not applicable

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: Nitrile rubber/nitrile latex Break through time: >= 480 min Material thickness: 0.35 mm

Material: butyl-rubber

Break through time: >= 480 min Material thickness: 0.5 mm

Eye protection Safety glasses

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.



Version: 4.10 Revision Date 2012/03/29

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 data available

pH not applicable

Melting point/range ca. -4 - 1 °C

Flash point ca. > 170 °C; DIN 51758

Evaporation rate no data available

Flammability (solid, gas) not auto-flammable

Lower explosion limitno data availableUpper explosion limitno data availableVapour pressureca. < 1.000 hPa; 20 °C</th>

Relative vapour density no data available

Density ca.0.8 g/cm3; 20 °C; DIN 51757

Relative density no data available

Bulk density no data available

Water solubility insoluble

Partition coefficient: n-

octanol/water

log Pow: > 8; 23 °C; pH: 7.1; OECD Test Guideline 117

Ignition temperature 258 °C

Autoignition temperature not auto-flammable

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

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

EC-SAFETY DATA SHEET



ISOFOL 20

Version: 4.10 Revision Date 2012/03/29

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 LD50 rat: > 2,000 mg/kg

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

Acute inhalation toxicity study scientifically unjustified

Data are available from alternate exposure routes.

Acute dermal toxicity LD50 rabbit: > 2 ml/kg

Skin corrosion/irritation

Skin irritation rabbit: slightly irritating

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

Human experience - Skin not irritating

contact

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

products (conclusion by analogy).

2-Butyloctan-1-ol

Serious eye damage/eye irritation

Eye irritation rabbit: slightly irritating

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

Respiratory or skin sensitization

Sensitisation Maximisation Test guinea pig: not sensitizing

(literature value)

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

Germ cell mutagenicity

Genotoxicity in vitro In vitro tests did not show mutagenic effects

(literature value) Category approach

Genotoxicity in vivo The study is not necessary.

In vitro tests did not show mutagenic effects



Version: 4.10 Revision Date 2012/03/29

Category approach

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

Carcinogenicity

Carcinogenicity 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 Two-generation reproductive toxicity; OECD Test Guideline 416

Testing proposal

Teratogenicity rat; Oral; 20 days

NOAEL: 1,000 mg/kg (based on body weight and day)

NOAEL (dam): 1,000 mg/kg (based on body weight and day); OECD Test

Guideline 414

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

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 rat; Oral; Subchronic toxicity

NOAEL: 839.6 mg/kg (based on body weight and day)

(literature value)

Aspiration hazard

Aspiration toxicity not applicable

Further information

Toxicological information The substance is metabolised and excreted.

Bioaccumulation is unlikely.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

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

Category approach

Toxicity to fish - Chronic

toxicity

The study is not necessary.

The study is not necessary.

Justification:

Substance is readily biodegradable and has a low aquatic toxicity.

Toxicity to daphnia and other

aquatic invertebrates

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

Toxicity to daphnia and other

aquatic invertebrates - Chronic

Justification:

toxicity

Substance is readily biodegradable and has a low aquatic toxicity.



Version: 4.10 Revision Date 2012/03/29

Toxicity to aquatic plants ErC50 (72 h) Desmodesmus subspicatus (green algae); static test; DIN 38412; In

the range of water solubility not toxic under test conditions.

EC0 (3 h) activated sludge of a predominantly domestic sewage: > 1,000 mg/l; Toxicity to bacteria

Respiration inhibition; OECD Test Guideline 209

Toxicity to soil dwelling

organisms

The study is not necessary.

Justification:

Readily biodegradable.

unlikely direct and indirect exposure of the soil compartment

Toxicity to terrestrial flora The study is not necessary.

Justification:

Readily biodegradable.

unlikely direct and indirect exposure of the soil compartment

Toxicity for other terrestrial

non-mammalian fauna

The study is not necessary.

Justification:

Readily biodegradable.

unlikely direct and indirect exposure of the soil compartment

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Bioaccumulation Bioconcentration factor (BCF): 53 - 539; calculated

(literature value)

Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility 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 is not considered to be persistent, bioaccumulating nor toxic (PBT).

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

12.6 Other adverse effects

General advice 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



Version: 4.10 Revision Date 2012/03/29

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.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

NATIONAL/OTHER REGULATIONS

Directive 96/82/EC on the control of major-accident hazards involving dangerous

list entry in the directive: Directive 96/82/EC does not apply



Version: 4.10 Revision Date 2012/03/29

substances

NOTIFICATION STATUS

US. Toxic Substances Control Act	TSCA	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 144)	DSL	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	NZIOC	y (positive listing)
Japan. Kashin-Hou Law List	ENCS (JP)	y (positive listing)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	y (positive listing)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	y (positive listing)
China. Inventory of Existing Chemical Substances	INV (CN)	y (positive listing)
Switzerland. Consolidated Inventory	CH INV	y (positive listing)

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:

12. Ecological 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)



Version: 4.10 **Revision Date 2012/03/29**

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 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

Lethal Concentration, ...% LC... 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 Predicted No-Effect Concentration

PNEC

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 very persistent, very bioaccumulative vPvB

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