

ISOFOL 24

Version: 5.06

Revision Date 2019/01/07

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

1.1 Product identifier

Trade name	ISOFOL 24
INCI	Decyltetradecanol
REACH No.	01-2119902952-39-0000
Substance name (REACH / CLP)	2-Decyl-1-tetradecanol

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 textile auxiliary agents 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 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)
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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.

2.2 Label elements

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

2.3 Other hazards

No hazards to be specially mentioned.

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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-Decyltetradecanol****component type:** Active ingredient**EC-No.:** 261-385-0**Index-No.:****CAS-No.:** 58670-89-6**REACH No.:** 01-2119902952-39-0000**Substance name (REACH / CLP):** 2-Decyltetradecanol**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.
In case of skin contact	Wash off with soap and water.
In case of eye contact	Rinse with plenty of water.
If swallowed	Consult a physician if necessary. Rinse mouth.

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.
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SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media	Water, Foam, Dry powder, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

Special protective equipment	Wear self-contained breathing apparatus for firefighting if necessary.
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for firefighters**Further information**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

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. 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**

No special technical protective measures required.

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage areas and containers**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.

Further information on storage conditions

Storage temperature: 5 °C < T < 30 °C (41 °F < T < 86°C)

Storage class (TRGS 510)

10: Combustible liquids not in Storage Class 3

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-Decyltetradecanol**

Not relevant / not applicable

PREDICTED NO EFFECT CONCENTRATION (PNEC)**Substance name: 2-Decyltetradecanol**

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
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
Hygiene measures	General industrial hygiene practice.
Protective measures	No special protective equipment required.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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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	Justification:., Not applicable, insoluble
Melting point/range	ca. 14 - 16 °C
Boiling point/boiling range	ca. > 300 °C
Flash point	ca. 230 °C; DIN 51758
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	ca. < 0.1 hPa; 20 °C
Relative vapour density	No data available
Density	ca.0.8 g/cm ³ ; 20 °C; DIN 51757
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: ca. 10; (calculated)
Ignition temperature	ca. 305 °C
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 86 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

None known.

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.
No decomposition if stored and applied as directed.

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 None known.;

10.6 Hazardous decomposition products

Thermal decomposition No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401
Based on available data, the classification criteria are not met.

Acute inhalation toxicity The study is not necessary.
Justification:
Negligible or unlikely exposure pathways

Acute dermal toxicity LD50 Rabbit: > 2 ml/kg
Symptoms: Local irritation
Category approach
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation Rabbit: slightly irritating; OECD Test Guideline 404
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Eye irritation Rabbit: slightly irritating; OECD Test Guideline 405
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Sensitisation Maximisation Test Guinea pig: not sensitizing
Category approach

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

Germ cell mutagenicity**Genotoxicity in vitro**

In vitro tests did not show mutagenic effects
Category approach

Genotoxicity in vivo

The study is not necessary.
Justification:
In vitro tests did not show mutagenic effects

Carcinogenicity**Carcinogenicity**

The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.
Category approach

Reproductive toxicity**Reproductive toxicity**

Rat; Oral
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

Remarks-Reproductive toxicity

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

Teratogenicity

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
(literature value)
Category approach

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

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)
Category approach

Aspiration hazard**Aspiration toxicity**

Not applicable

Further information**Toxicological information**

Toxicokinetics
The substance is metabolised and excreted.

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Bioaccumulation is unlikely.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	(48 h) <i>Leuciscus idus</i> (Golden orfe) ; static test; DIN 38412 In the range of water solubility not toxic under test conditions. Category approach
Toxicity to fish - Chronic toxicity	The study is not necessary. Justification: Substance is readily biodegradable and has a low aquatic toxicity.
Toxicity to daphnia and other aquatic invertebrates	(48 h) <i>Daphnia magna</i> (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 toxicity	The study is not necessary. Justification: Substance is readily biodegradable and has a low aquatic toxicity.
Toxicity to aquatic plants	(72 h) <i>Desmodesmus subspicatus</i> (green algae) ; static test; DIN 38412; In the range of water solubility not toxic under test conditions. Category approach
Toxicity to bacteria	EC ₀ (3 h) activated sludge of a predominantly domestic sewage: > 1,000 mg/l; Respiration inhibition; OECD Test Guideline 209 Category approach
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	rapidly biodegradable; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
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12.3 Bioaccumulative potential

Bioaccumulation	Bioconcentration factor (BCF): 58.7; calculated (literature value) Bioaccumulation is unlikely.
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12.4 Mobility in soil

Mobility	Adsorption/Soil/Sewage sludge; log K _{oc} : 8.92 - 9.79; OECD Test Guideline 121 immobile strong adsorption to soil The substance and its relevant degradation products decompose rapidly.
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12.5 Results of PBT and vPvB assessment

Results of PBT assessment	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
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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

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

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

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	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)	not listed (product or constituents are not 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

2-Decyltetradecanol

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

SECTION 16: OTHER INFORMATION

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

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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

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.

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000076_EN_01.pdf