Product information

09.07.2014

ISOFOL 18 E

Odour:	typical	internal:	I18E003
Chemical Name:	Isostearyl alcohol	Revision:	V1.4, 09.07.2014
Appearance:	clear, colourless, oily liquid		

Sales specification

			Analytical method
iC 16 OH		5 - 8 wt. %	600-12a
iC 18 OH		82 - 88 wt. %	600-12a
iC 20 OH		5 - 8 wt. %	600-12a
Water	max.	0,1 wt. %	DIN 51777
Colour	max.	10 Hazen	EN ISO 6271-2
Ester Number	max.	0,5 mg KOH/g	600-33
Acid number	max.	0,05 mg KOH/g	600-31
Iodine Number	max.	0,5 mg I/100mg	600-39

Additional properties

Density at 20 °C		0,835 - 0,839 g/ml	DIN 51757
Melting Range		-10 - -6 °C	600-27
Boiling Point	ca.	290 °C	600-21
Flash point	ca.	170 °C	ISO 2592
Index of Refraction	ca.	1,452 nD20	DIN 51423
Viscosity at 20 °C	ca.	50 mPas	600-25
Molecular weight		269 - 279 g/mol	600-19
Hydroxyl Number		196 - 206 mg KOH/g	600-30

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ISOFOL 18 E

Version: *6*.00 **Revision Date 2021/12/11**

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

1.1 Product identifier

Trade name **ISOFOL 18 E**

REACH No. 01-2119983516-26-0000

Substance name (REACH / CLP) Reaction mass of 2-Hexyl-1-dodecanol and 2-Octyl-1-decanol

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 synthesis processes in the chemical industry
raw material for adhesives and binders

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

1.4 Emergency telephone number

Emergency telephone number

+44 1235 239670	Europe
+44 1235 239671	Middle East, Africa
+1 215 207 0061	North America, South America
+65 3158 1074	Asia Pacific Region
+44 1865 407333	Global (english)

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

No hazards to be specially mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

CHEMICAL CHARACTERIZATION

reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol

component type: Active ingredient

EC-No.: 939-621-5 **Index-No.:** **CAS-No.:**
REACH No.: 01-2119983516-26-0000
Substance name (REACH / CLP): reaction mass of 2-Hexyl-1-dodecanol and 2-Octyl-1-decanol

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 physician.
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.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water, Foam, Dry powder, 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	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.
Special precautions	Forms slippery/greasy layers with water.

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	No special storage conditions required.
Other data	Protect from frost, heat and sunlight.

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

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Reaction product of 2-Hexyl-1-dodecanol and 2-Octyl-1-decanol, ethylene oxide (>=2.5EO)

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	Material: Nitrile rubber/nitrile latex Break through time: >= 480 min Glove thickness: 0.35 mm Material: butyl-rubber Break through time: >= 480 min Glove thickness: 0.5 mm 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).
Eye protection	Safety glasses
Skin and body protection	Wear suitable protective equipment.
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.

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	Justification:, Not applicable, insoluble
Melting point/range	ca. -10 - -5 °C
Boiling point/boiling range	ca. > 290 °C
Flash point	ca. 170 °C; DIN 51758
Evaporation rate	No data available
Flammability (solid, gas)	Not relevant / Not applicable
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/cm3; 20 °C; DIN 51757
Water solubility	insoluble
Partition coefficient: n-octanol/water	No data available
Ignition temperature	ca. 260 °C
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 50 - 54 mPas; 20 °C
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

Additional advice	no data

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

Hazardous decomposition products No decomposition if stored normally.

Thermal decomposition No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Alcohols, C16-20 branched
Based on available data, the classification criteria are not met.

Acute inhalation toxicity reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
study scientifically unjustified
Data are available from alternate exposure routes.

Acute dermal toxicity reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
LD50 Rabbit: > 2 ml/kg
Category approach
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
Rabbit: slightly irritating; OECD Test Guideline 404
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Alcohols, C16-20 branched
Based on available data, the classification criteria are not met.

Human experience -Skin contact reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
not irritating

Serious eye damage/eye irritation

Eye irritation reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
Rabbit: slightly irritating; OECD Test Guideline 405
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Test substance: Alcohols, C16-20 branched
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Sensitisation	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Maximisation Test Guinea pig: not sensitizing Category approach Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: In vitro tests did not show mutagenic effects Category approach
Remarks	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: This information is not available.

Reproductive toxicity

Reproductive toxicity	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Rat; Oral No toxicity to reproduction (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	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Based on available data, the classification criteria are not met.
Teratogenicity	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Rat; Oral; OECD Test Guideline 414 (literature value) Did not show teratogenic effects in animal experiments. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 2-Octyldodecan-1-ol reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Rabbit; Oral (literature value) Did not show teratogenic effects in animal experiments. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Docosan-1-ol
Remarks-Teratogenicity	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Based on available data, the classification criteria are not met.

STOT - single exposure

Remarks	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Remarks	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Rat; Oral; Subchronic toxicity

NOAEL: 839.6 mg/kg (based on body weight and day)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: 2-Octyldodecan-1-ol

Aspiration hazard

Aspiration toxicity reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
Not applicable

Toxicological information reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
The substance is metabolised and excreted.
Bioaccumulation is unlikely.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
In the range of water solubility not toxic under test conditions.
Category approach

Toxicity to fish - Chronic toxicity reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
The study is not necessary.
Justification:
exposure considerations
Substance is readily biodegradable and has a low aquatic toxicity.

Toxicity to daphnia and other aquatic invertebrates reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
(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 toxicity reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
The study is not necessary.
Justification:
exposure considerations
Substance is readily biodegradable and has a low aquatic toxicity.

Toxicity to aquatic plants reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
(72 h) Pseudokirchneriella subcapitata (green algae) ; Growth rate; static test; OECD Test Guideline 201; In the range of water solubility not toxic under test conditions.
Category approach

Toxicity to bacteria reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
EC0 (3 h) activated sludge of a predominantly domestic sewage: > 1,000 mg/l; Respiration inhibition; OECD Test Guideline 209
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: 2-Octyldodecan-1-ol

Toxicity to soil dwelling organisms reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
The study is not necessary.
Justification:
Readily biodegradable.
unlikely direct and indirect exposure of the soil compartment

Toxicity to terrestrial flora reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol:
The study is not necessary.
Justification:
Readily biodegradable.
unlikely direct and indirect exposure of the soil compartment

Toxicity for other terrestrial non-mammalian fauna	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: The study is not necessary. Justification: Readily biodegradable. unlikely direct and indirect exposure of the soil compartment

12.2 Persistence and degradability

Biodegradability	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 310 Category approach

12.3 Bioaccumulative potential

Bioaccumulation	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Bioconcentration factor (BCF): 240; QSAR Test substance: 2-Octyldodecan-1-ol

12.4 Mobility in soil

Mobility	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: Adsorption/Soil; Koc: 214 - 4170; OECD Test Guideline 106 Slightly mobile in soils The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Alcohols, C16-20 branched

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	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: 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

General advice	reaction mass of 2-hexyldodecan-1-ol and 2-octyldecan-1-ol: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Can be incinerated, when in compliance with local regulations.
Contaminated packaging	Empty remaining contents.
Waste Code	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

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

NOTIFICATION STATUS

Australia Inventory of Chemical Substances (AICS)	AICS	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	not listed (product or constituents are not listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	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)	not listed (product or constituents are not listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	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

reaction mass of 2-Hexyl-1-dodecanol and 2-Octyl-1-decanol

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

SECTION 16: OTHER INFORMATION

Safety datasheet sections which have been updated:

1. Identification of the substance/mixture and of the company/undertaking
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.

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

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.

reaction mass of 2-Hexyl-1-dodecanol and 2-Octyl-1-decanol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000017515_EN_01.pdf