

ISOCARB 16

Version: 6.04

Revision Date 29.09.2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name	ISOCARB 16
INCI	Hexyldecanoic Acid
Substance name (REACH / CLP)	2-Hexyldecanoic acid

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

Use	Industrial use raw material for cosmetic agents anti-corrosion agent
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)	
Skin sensitisation Category 1	May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

Hazard statements
H317

May cause an allergic skin reaction.

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Precautionary statements

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

None known.

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**2-Hexyldecanoic acid**

EC-No.: 246-885-9	Index-No.:	component type: Active ingredient
REACH No.:		CAS-No.: 25354-97-6
Substance name (REACH / CLP): 2-Hexyldecanoic acid		
Classification (Regulation (EC) No 1272/2008):	Skin Sens. 1B	H317

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

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). Take off all contaminated clothing immediately.
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.
In case of eye contact	Rinse with plenty of water.
If swallowed	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available.
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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**

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**

Wear personal protective equipment.

Advice on protection against fire and explosion

No special protective measures against fire required.

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

No special storage conditions required.

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Storage class (TRGS 510) 10: Combustible liquids not in Storage Class 3

Other data Stable under normal conditions.

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

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

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

Eye protection

Safety glasses

Skin and body protection

Protective suit

Hygiene measures

Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wear suitable gloves and eye/face protection.

Protective measures

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

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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. 16 - 18 °C
Flash Point	ca. 170 °C; DIN 51758
Evaporation rate	Not relevant / not applicable
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0,1 hPa; 20 °C
Relative vapour density	No data available
Density	ca.0,87 - 0,88 g/cm ³ ; 20 °C; DIN 51757
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: 4,6; OECD Test Guideline 107
Ignition temperature	No data available
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 62 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.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

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Note	No decomposition if stored and applied as directed.
10.2 Chemical stability	
Note	The product is chemically stable.
10.3 Possibility of hazardous reactions	
Hazardous reactions	No information available.: Hazardous decomposition products formed under fire 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	No data available;
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	LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 401 Based on available data, the classification criteria are not met.
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available

Skin corrosion/irritation

Skin irritation	Rabbit: not irritating; OECD Test Guideline 404 The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Based on available data, the classification criteria are not met. Test substance: 2-Butyloctanoic acid
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Serious eye damage/eye irritation

Eye irritation	Rabbit: slightly irritating; OECD Test Guideline 405 The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Based on available data, the classification criteria are not met. Test substance: 2-Butyloctanoic acid
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Respiratory or skin sensitisation

Sensitisation	Mouse local lymphnode assay Mouse: sensitizing; OECD Test Guideline 429 May cause an allergic skin reaction.
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Germ cell mutagenicity

Genotoxicity in vitro	Ames test; Salmonella typhimurium; with and without metabolic activation: not mutagenic; OECD Test Guideline 471
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	The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 2-Butyloctanoic acid
Genotoxicity in vivo	No data available
Carcinogenicity	
Carcinogenicity	This information is not available.
Reproductive toxicity	
Reproductive toxicity	This information is not available.
Teratogenicity	This information is not available.
STOT - single exposure	
Remarks	The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	This information is not available.
Repeated dose toxicity	This information is not available.
Aspiration hazard	

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	No data available
Toxicity to fish - Chronic toxicity	No data available
Toxicity to daphnia and other aquatic invertebrates	(48 h) Daphnia magna (Water flea) ; static test; OECD Test Guideline 202 In the range of water solubility not toxic under test conditions. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 2-Decyltetradecanoic acid
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	No data available
Toxicity to aquatic plants	No data available
Toxicity to soil dwelling organisms	The study is not necessary. Justification: Readily biodegradable
Toxicity to terrestrial flora	The study is not necessary. Justification: Readily biodegradable
Toxicity for other terrestrial non-mammalian fauna	The study is not necessary. Justification: Readily biodegradable

12.2 Persistence and degradability

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Biodegradability Readily biodegradable; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: 2-Butyloctanoic acid
100 %; 21 d; CEC L-33-T-82

12.3 Bioaccumulative potential

Bioaccumulation No data available

12.4 Mobility in soil

Mobility No data available

12.5 Results of PBT and vPvB assessment

Results of PBT assessment 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 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

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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

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

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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	restricted (product or constituents are listed with quantity restrictions)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	not listed (product or constituents are not 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-Hexyldecanoic acid

A Chemical Safety Assessment is not required for this substance (quantity threshold for registration not reached).

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H317 May cause an allergic skin reaction.

Safety datasheet sections which have been updated:

- 2. Hazards identification
- 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

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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)
EWG	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