

**Cutol MA**

Version: 5.00

Date of first issue: 2020/06/23

Revision Date: 2023/04/12

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

Trade name	Cutol MA Metallbearbeitungsöl
REACH No.	01-2119487981-22-0000
Substance name (REACH / CLP):	2-hexyldecan-1-ol

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

Use of the Substance/Mixture	Industrial use, Intermediate, lubricant or lubricant additive, Oilfield, Paint and Coatings, Personal care, Solvent, Raw material for chemical processes, Raw material for cosmetic products, raw material for textile auxiliary agents
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Uses advised against

1.3 Details of the supplier of the safety data sheet

Company	Kaltenbach GmbH & CA, KG Blasiring 4 79539 Lörrach Germany
	Telephone: +49 7621 - 175-262 Telefax: +49 7621 - 175-762
Information (Product safety)	E-mail: info@kaltenbach.de

1.4 Emergency telephone number

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

2.2 Label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

2.3 Other hazards



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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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

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

CHEMICAL CHARACTERIZATION

2-hexyldecan-1-ol

component type: Active ingredient**EC-No.:** 219-370-1**Index-No.:****CAS-No.:** 2425-77-6**REACH No.:** 01-2119487981-22-0000**Substance name (REACH / CLP):** 2-hexyldecan-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

For information on ingredients listed on the candidate list (Candidate List of Substances of Very High Concern for Authorisation) or in the list of substances subject to authorization (Annex XIV of Regulation (EC) No 1907/2006), see section 15.1. of this data sheet.

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

Symptoms	No information available.
Risks	No information available.

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4.3 Indication of any immediate medical attention and special treatment needed

No information available.

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 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.
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6.2 Environmental precautions

Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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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).
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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



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Requirements for storage areas and containers No special storage conditions required.

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

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

Derived No Effect Level (DNEL)

End Use	Exposure routes	Value	Note
Workers	Inhalation, long-term exposure - systemic effects		No hazard identified
	Inhalation, Acute systemic effects		No hazard identified
	Inhalation, Long-term local effects		No hazard identified
	Inhalation, Acute local effects		No hazard identified
	dermal, long-term exposure - systemic effects		No hazard identified
	dermal, Acute systemic effects		No hazard identified
	dermal, Long-term local effects		No hazard identified
	dermal, Acute local effects		No hazard identified
	Eye contact, Local effects		No hazard identified
Consumers	Inhalation, long-term exposure - systemic effects		No hazard identified
	Inhalation, Acute systemic effects		No hazard identified
	Inhalation, Long-term local effects		No hazard identified
	Inhalation, Acute local effects		No hazard identified
	dermal, long-term exposure - systemic effects		No hazard identified
	dermal, Acute systemic effects		No hazard identified
	dermal, Long-term local effects		No hazard identified
	dermal, Acute local effects		No hazard identified
	Oral, long-term exposure - systemic effects		No hazard identified
	Oral, Acute systemic effects		No hazard identified
	Eye contact, Local effects		No hazard identified

Predicted No Effect Concentration (PNEC)



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Environmental Compartment	Value	Note
Fresh water		No hazard identified
intermittent release		Fresh water No hazard identified
Marine water		No hazard identified
intermittent release		Marine water No hazard identified
Fresh water sediment		No hazard identified
Marine sediment		No hazard identified
Sewage treatment plant		No hazard identified
Soil		No hazard identified
Air		No hazard identified
food		No hazard identified

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: butyl-rubber
Break through time: ≥ 480 min
Glove thickness: ≥ 0.7 mm

Material: Nitrile rubber
Break through time: ≥ 30 min
Glove thickness: ≥ 0.4 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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	Physical state: liquid; 20 °C; 1,013 hPa Shape: Liquid
Colour	colourless
Odour	characteristic
Odour Threshold	No valid method available.
Melting point/range	ca. -22 - -16 °C
Boiling point/boiling range	ca. > 285 °C
Flammability	not applicable (liquid)
Upper explosion limit	No data available
Lower explosion limit	No data available
Flash point	ca. 156 °C; DIN 51758
Auto-ignition temperature	ca. 260 °C
Decomposition temperature	No decomposition if used as directed.
pH	Not applicable, Justification:, insoluble
Viscosity	
Viscosity, dynamic	ca. 38 mPas; 20 °C
Solubility(ies)	
Water solubility	insoluble
Partition coefficient: n-octanol/water	Pow: 6.8; 23 °C; pH: 7.1; OECD Test Guideline 117
Vapour pressure	< 0.001 hPa; 20 °C
Density	ca.0.8 g/cm3; 20 °C; DIN 51757
Relative vapour density	

9.2 Other information

Explosives	Constituents do not contain chemical groups associated with explosivity.
Oxidizing properties	not expected based on structure and functional groups
Self-ignition	not auto-flammable
Evaporation rate	No data available

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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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Not classified based on available information.

Acute oral toxicity	<i>2-hexyldecan-1-ol</i> : LD50 Rat: > 5,000 mg/kg
Acute inhalation toxicity	<i>2-hexyldecan-1-ol</i> : study scientifically unjustified Data are available from alternate exposure routes.
Acute dermal toxicity	<i>2-hexyldecan-1-ol</i> : LD50 Rabbit: > 2 ml/kg

Skin corrosion/irritation

Not classified based on available information.

Skin irritation	<i>2-hexyldecan-1-ol</i> : Rabbit: slightly irritating
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Serious eye damage/eye irritation

Not classified based on available information.

Eye irritation	<i>2-hexyldecan-1-ol</i> : Rabbit: slightly irritating
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Skin sensitisation / Respiratory sensitisation

Skin contact: Not classified based on available information.



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Inhalation: Not classified based on available information.

Sensitisation

2-hexyldecan-1-ol:
Maximisation Test Guinea pig: not sensitizing
(literature value)
Category approach

Germ cell mutagenicity

Not classified based on available information.

Genotoxicity in vitro

2-hexyldecan-1-ol:
In vitro tests did not show mutagenic effects

Genotoxicity in vivo

2-hexyldecan-1-ol:
The study is not necessary.
In vitro tests did not show mutagenic effects
Category approach

Carcinogenicity

Not classified based on available information.

Carcinogenicity

2-hexyldecan-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

Not classified based on available information.

Effects on fertility

2-hexyldecan-1-ol:
Rat; Oral; OECD Test Guideline 415
No toxicity to reproduction

(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Effects on foetal development

2-hexyldecan-1-ol:
Rat; Oral; OECD Test Guideline 414
Animal testing did not show any effects on foetal development.

Category approach
(literature value)

2-hexyldecan-1-ol:
Rabbit; Oral
Animal testing did not show any effects on foetal development.

(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

STOT - single exposure

Not classified based on available information.

Assessment

2-hexyldecan-1-ol:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.



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Assessment	<i>2-hexyldecan-1-ol</i> : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	<i>2-hexyldecan-1-ol</i> : 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

Not classified based on available information.

Aspiration toxicity	<i>2-hexyldecan-1-ol</i> : Not applicable
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11.2 Information on other hazards

Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Experience with human exposure - Skin contact	<i>2-hexyldecan-1-ol</i> : not irritating
Toxicological information	<i>2-hexyldecan-1-ol</i> : The substance is metabolised and excreted. Bioaccumulation is unlikely.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity to fish	<i>2-hexyldecan-1-ol</i> : LC50 (48 h) <i>Leuciscus idus</i> (Golden orfe): > 100 mg/l ; static test; DIN 38412 Category approach
Toxicity to fish - Chronic toxicity	<i>2-hexyldecan-1-ol</i> : No data available
Toxicity to daphnia and other aquatic invertebrates	<i>2-hexyldecan-1-ol</i> : EC50 (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. Test substance: Category approach
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	<i>2-hexyldecan-1-ol</i> : No data available
Toxicity to aquatic plants	<i>2-hexyldecan-1-ol</i> : ErC50 (72 h) <i>Pseudokirchneriella subcapitata</i> (green algae) ; static test; OECD Test Guideline 201; In the range of water solubility not toxic under test conditions.
Toxicity to bacteria	<i>2-hexyldecan-1-ol</i> : EC0 (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	<i>2-hexyldecan-1-ol</i> :

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organisms	No data available
Plant toxicity	<i>2-hexyldecan-1-ol</i> : No data available
Toxicity to terrestrial organisms	<i>2-hexyldecan-1-ol</i> : No data available
12.2 Persistence and degradability	
Biodegradability	<i>2-hexyldecan-1-ol</i> : rapidly biodegradable; > 60 %; 28 d; aerobic; OECD Test Guideline 310 (literature value)
12.3 Bioaccumulative potential	
Bioaccumulation	<i>2-hexyldecan-1-ol</i> : Bioconcentration factor (BCF): 603 - 620; calculated (literature value) Bioaccumulation is unlikely.
12.4 Mobility in soil	
Distribution among environmental compartments	<i>2-hexyldecan-1-ol</i> : adsorption/desorption (soil); Koc: 214 - 4170; log Koc: 2.33 - 3.62; OECD Test Guideline 106 low mobility in soils The substance and its relevant degradation products decompose rapidly. 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	<i>2-hexyldecan-1-ol</i> : 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). Based on available data, the classification criteria are not met.
12.6 Endocrine disrupting properties	
Endocrine disrupting potential	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	
Additional ecological information	<i>2-hexyldecan-1-ol</i> : None known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product	Can be incinerated, when in compliance with local regulations.
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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 or ID number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 UN 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(es)

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 Maritime transport in bulk according to IMO instruments

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Remarks	No information available.
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SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU PIC: Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals**

Not applicable

EU SVHC: REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

EU. REACH-Annex XIV: REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

EC 1005/2009: Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not applicable

EU POP: Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

UK. REACH Annex XIV: UK REACH List of substances subject to authorisation (Annex XIV)

Not applicable

UK SVHC: UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation

Not applicable

GB POPs: The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Not applicable

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

Australian Inventory of Industrial Chemicals	ZAU_AIIC	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	listed (product or constituents are 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)	listed (product or constituents are 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**2-hexyldecan-1-ol**

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
3. Composition/information on ingredients
8. Exposure controls/personal protection
11. Toxicological information
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



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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)
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

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-hexyldecan-1-ol