



Trade name: Cutol MA  
Metalworking oil  
Revision Date: 24.07.2019  
Print Date: 07.12.2017

Version: 4.11

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

**1.1 Product identifier**

Trade name  
Cutol MA  
Metalworking oil

**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 washing and cleaning agents  
raw material for synthesis processes in the chemical industry  
raw material for lubricants and lubricant additives  
Solvent  
raw material for welding and soldering aids

**Uses advised against**

**1.3 Details of the supplier of the safety data sheet**

**Company:** Kaltenbach GmbH + Co. KG  
Blasiring 4  
79539 Lörrach  
**Telephone:** +49 (0) 7621 175-0  
**Telefax:** +49 (0) 7621 175-900  
**E-mail address:** [info@kaltenbach.de](mailto:info@kaltenbach.de)

**1.4 Emergency telephone number**

+ 49 (0) 5 51 - 1 92 40 (GIZ-Nord Poisons Centre)

**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.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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

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## CHEMICAL CHARACTERIZATION

2-Hexyldecan-1-ol  
Dodecan-1-ol  
Tetradecanol

EG-Nr: 219-370-1  
EG-Nr: 203-982-0  
EG-Nr: 204-000-3

REACH Nr.: 01-2119487981-22-0000  
REACH Nr.: 01-2119485976-15-0000  
REACH Nr.: 01-2119485910-33-0000

## 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**

**In case of skin contact**

**In case of eye contact**

**If swallowed**

No hazards which require special first aid measures.

Wash off with soap and water.

Rinse with plenty of water.

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 (CO<sub>2</sub>)

### 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

Site : 2 / 9

( ENG )

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#### **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**

No special storage conditions required.

#### **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.

## **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)**

**Substance name: 2-hexyldecan-1-ol**

Not relevant / not applicable

#### **PREDICTED NO EFFECT CONCENTRATION (PNEC)**

**Substance name: 2-hexyldecan-1-ol**

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

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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:  $\geq$  480 min Layer thickness: 0.35 mm  
Material: butyl-rubber Break through time:  $\geq$  480 min Layer thickness: 0.5 mm

<b>Eye protection</b>	Safety glasses
<b>Hygiene measures</b>	General industrial hygiene practice.
<b>Protective measures</b>	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

<b>Physical state</b>	iquid; 20 °C; 1,013 hPa
<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	Not applicable, Justification:., insoluble
<b>Melting point/range</b>	ca. 156 °C; (140 °C)DIN 51758
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not applicable (liquid)
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	< 0,001 hPa; 20 °C
<b>Relative vapour density</b>	No data available
<b>Density</b>	ca.0,830-0,840 g/cm <sup>3</sup> ; 20 °C; DIN 51757
<b>Relative density</b>	No data available
<b>Water solubility</b>	insoluble
<b>Partition coefficient: n-octanol/water:</b>	Pow: 6.8; 23 °C; pH: 7.1; OECD Test Guideline 117
<b>Ignition temperature</b>	ca. 260 °C
<b>Auto-ignition temperature</b>	not auto-flammable
<b>Viscosity, dynamic</b>	ca. 17,5 mm <sup>2</sup> .s; 40 °C
<b>Explosive properties</b>	Constituents do not contain chemical groups associated with explosivity.
<b>Oxidizing properties</b>	not expected based on structure and functional groups

**9.2 Other data** None known.

## 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.;

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## 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 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 contact

not irritating

#### 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 (GPMT) Guinea pig: not sensitizing (literature value) Category approach 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)

##### Genotoxicity in vivo

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

Rat; Oral NOEL ((parents)): > 1,000 mg/kg (based on body weight and day) NOEL (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

##### RemarksReproductive toxicity

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

##### Teratogenicity

Rat; Oral

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

NOEL (pregnant female): 1,000 mg/kg (based on body weight and day); OECD

Test Guideline 414

(literature value)

Category approach

Rabbit; Oral

NOEL: > 2,000 mg/kg (based on body weight and day)

NOEL (pregnant female): > 2,000 mg/kg (based on body weight and day)

(literature value)

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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**

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. 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. Test substance: 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**

ErC50 (72 h) *Pseudokirchneriella subcapitata* (green algae) ; static test; OECD Test Guideline 201; In the range of water solubility not toxic under test conditions.

**Toxicity to bacteria**

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 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**

> 60 %; 28 d; aerobic; OECD Test Guideline 310 (literature value)

### 12.3 Bioaccumulative potential

**Bioaccumulation**

Bioconcentration factor (BCF): 603 - 620; calculated (literature value)

Bioaccumulation is unlikely.

### 12.4 Mobility in soil

**Mobility**

adsorption/desorption (soil); Koc: 214 - 4170; log Koc: 2.33 - 3.62; OECD Test Guideline 106 low mobility 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**

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This substance is not considered to be persistent, bioaccumulating and 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

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

### 14.4 Packing group

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

### 14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
AND	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.

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## 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

#### Directive 1999/13/EC (VOC)

The question whether this product or components thereof has/have to be considered as volatile organic compound/compounds (VOC) as defined by Directive 1999/13/EU can only be answered when detailed knowledge on the use as solvent in connection with certain activities in certain facilities is available.

#### 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. Environmental Protection Act

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. Toxic Chemical Control Law (TCCL) List

KECI (KR)

listed (product or constituents are listed)

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act

PICCS (PH)

listed (product or constituents are 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-hexyldecan-1-ol

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



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## SECTION 16: OTHER INFORMATION

### Safety datasheet sections which have been updated:

- 8. Exposure controls/personal protection
- 11. Toxicological 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

**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.**