

NAFOL 1618 HP

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** NAFOL 1618 HP**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 textile auxiliary agents
raw material for synthesis processes in the chemical industry
emulsifying agent
raw material for pharmaceutical products
raw material for lubricants and lubricant additives
anti-foaming agent

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

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No hazards to be specially mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

CHEMICAL CHARACTERIZATION

hexadecan-1-ol

content: $\geq 23 - 76 \%$

component type: Active ingredient

EC-No.: 253-149-0

Index-No.:

CAS-No.: 36653-82-4

REACH No.: 01-2119485905-24-0000

Substance name (REACH / CLP): hexadecan-1-ol

octadecan-1-ol

content: $\geq 20 - 75 \%$

component type: Active ingredient

EC-No.: 204-017-6

Index-No.:

CAS-No.: 112-92-5

REACH No.: 01-2119485907-20-0000

Substance name (REACH / CLP): octadecan-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

tetradecanol

content: $\geq 0.1 - < 0.25 \%$

component type: Impurity

EC-No.: 204-000-3

Index-No.:

CAS-No.: 112-72-1

Classification (Regulation (EC) No 1272/2008):

Eye Irrit. 2
Aquatic Chronic

H319

1 H410

dodecan-1-ol

content: $\geq 0.1 - < 0.25 \%$

component type: Impurity

EC-No.: 203-982-0

Index-No.:

CAS-No.: 112-53-8

Classification (Regulation (EC) No 1272/2008):

Eye Irrit. 2
Aquatic Acute
Aquatic Chronic

H319

1 H400

2 H411

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

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 plenty of water.

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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. Risks: 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.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO2)
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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	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.
Special precautions	Danger of slipping after spill or leakage.

6.2 Environmental precautions

Environmental precautions	Should not be released into the environment.
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal.
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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

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Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Fire-fighting class

B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

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

No special storage conditions required.

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

Control parameters / Substance name	Typ	Control parameters	Update	Basis
hexadecan-1-ol	AGW AGW	200 mg/m ³ 20 ppm	2013-09-19 2013-09-19	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	AGS: Committee on Hazardous Substances (Germany)Sum of vapor and aerosols.			
octadecan-1-ol	AGW AGW	224 mg/m ³ 20 ppm	2007-03-30 2007-03-30	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	AGS: Committee on Hazardous Substances (Germany)			
tetradecanol	AGW AGW	178 mg/m ³ 20 ppm	2013-09-19 2013-09-19	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	AGS: Committee on Hazardous Substances (Germany)Sum of vapor and aerosols.			
dodecan-1-ol	AGW AGW	155 mg/m ³ 20 ppm	2013-09-19 2013-09-19	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	AGS: Committee on Hazardous Substances (Germany)Sum of vapor and aerosols.			

No data available

Contains no substances with occupational exposure limit values.

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

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DERIVED NO EFFECT LEVEL (DNEL)

Substance name: hexadecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	110 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	389 mg/m ³	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	200 mg/m ³	
	Eye contact, Local effects		No hazard identified
Consumers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	55 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	96 mg/m ³	
	Oral, long-term exposure - systemic effects	55 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		No hazard identified
Inhalation, long-term exposure - local effects		No hazard identified	
Eye contact, Local effects		No hazard identified	

Substance name: octadecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified

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	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	110 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	389 mg/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	224 mg/m3	
	Eye contact, Local effects		No hazard identified
Consumers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	55 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	96 mg/m3	
	Oral, long-term exposure - systemic effects	55 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects		No hazard identified
	Eye contact, Local effects		No hazard identified

Substance name: tetradecanol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects	220 mg/m3	
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	89 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	313 mg/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	178 mg/m3	
Consumers	dermal, Acute/short-term exposure - systemic effects		No hazard identified

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	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	44.4 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	77 mg/m3	
	Oral, long-term exposure - systemic effects	44.4 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects		No hazard identified
Workers	Eye contact,		Low hazard
Consumers	Eye contact,		Low hazard

Substance name: dodecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	89 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	313 mg/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	155 mg/m3	
Consumers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	44.5 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	77 mg/m3	

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	Oral, long-term exposure - systemic effects	44.5 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects		No hazard identified
	Eye contact,		Low hazard
Workers	Eye contact,		Low hazard

Substance name: hexadecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	110 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	389 mg/m ³	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	200 mg/m ³	
	Eye contact, Local effects		No hazard identified
	Consumers	dermal, Acute/short-term exposure - systemic effects	
Inhalation, Acute/short-term exposure - systemic effects			No hazard identified
Oral, Acute/short-term exposure - systemic effects			No hazard identified
dermal, Acute/short-term exposure - local effects			No hazard identified
Inhalation, Acute/short-term exposure - local effects			No hazard identified
dermal, long-term exposure - systemic effects		55 mg/kg	based on body weight and day
Inhalation, long-term exposure - systemic effects		96 mg/m ³	
Oral, long-term exposure - systemic effects		55 mg/kg	based on body weight and day
dermal, long-term exposure - local effects			No hazard identified
Inhalation, long-term exposure - local effects			No hazard identified
Eye contact, Local effects		No hazard identified	

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Substance name: octadecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	110 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	389 mg/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	224 mg/m3	
	Eye contact, Local effects		No hazard identified
	Consumers	dermal, Acute/short-term exposure - systemic effects	
Inhalation, Acute/short-term exposure - systemic effects			No hazard identified
Oral, Acute/short-term exposure - systemic effects			No hazard identified
dermal, Acute/short-term exposure - local effects			No hazard identified
Inhalation, Acute/short-term exposure - local effects			No hazard identified
dermal, long-term exposure - systemic effects		55 mg/kg	based on body weight and day
Inhalation, long-term exposure - systemic effects		96 mg/m3	
Oral, long-term exposure - systemic effects		55 mg/kg	based on body weight and day
dermal, long-term exposure - local effects			No hazard identified
Inhalation, long-term exposure - local effects			No hazard identified
Eye contact, Local effects		No hazard identified	

Substance name: Icosan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified

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	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	110 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	389 mg/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	244 mg/m3	
	Eye contact, Local effects		No hazard identified
Consumers	dermal, Acute/short-term exposure - systemic effects	75 mg/kg	based on body weight and day
	Inhalation, Acute/short-term exposure - systemic effects	65 mg/m3	
	Oral, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	55 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	96 mg/m3	
	Oral, long-term exposure - systemic effects	55 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects		No hazard identified
	Eye contact, Local effects		No hazard identified

Substance name: tetradecanol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects	220 mg/m3	
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	89 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	313 mg/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	178 mg/m3	
Consumers	dermal, Acute/short-term exposure - systemic effects		No hazard identified

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	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	44.4 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	77 mg/m3	
	Oral, long-term exposure - systemic effects	44.4 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects		No hazard identified
Workers	Eye contact,		Low hazard
Consumers	Eye contact,		Low hazard

Substance name: dodecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	89 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	313 mg/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	155 mg/m3	
Consumers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	44.5 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	77 mg/m3	

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	Oral, long-term exposure - systemic effects	44.5 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects		No hazard identified
	Eye contact,		Low hazard
Workers	Eye contact,		Low hazard

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PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: hexadecan-1-ol		
Environmental Compartment	Value	Note
Fresh water		No hazard identified
Marine water		No hazard identified
intermittent release		No hazard identified
Sewage treatment plant		No hazard identified
Fresh water sediment		No hazard identified
Marine sediment		No hazard identified
Soil	5.8mg/kg dry weight (d.w.)	based on dry weight
Air		No hazard identified

Substance name: octadecan-1-ol		
Environmental Compartment	Value	Note
Fresh water		No hazard identified
Marine water		No hazard identified
intermittent release		No hazard identified
Sewage treatment plant		No hazard identified
Fresh water sediment	56.6 mg/kg	based on dry weight
Marine sediment	5.66 mg/kg	based on dry weight
Soil	11.3 mg/kg	based on dry weight
food		No hazard identified
Air		No hazard identified

Substance name: tetradecanol		
Environmental Compartment	Value	Note
Fresh water	0.001 mg/l	
Marine water	0 mg/l	
Sewage treatment plant		No hazard identified
Air		No hazard identified
Fresh water sediment	2.14 mg/kg	based on dry weight
Marine sediment	0.214 mg/kg	based on dry weight
Soil	0.428 mg/kg	based on dry weight
food		No hazard identified

Substance name: dodecan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0.001 mg/l	

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Marine water	0 mg/l	
Sewage treatment plant		No hazard identified
Fresh water sediment	0.666 mg/kg	based on dry weight
Marine sediment	0.067 mg/kg	based on dry weight
Soil	0.132 mg/kg	based on dry weight
Air		No hazard identified
food		Not relevant / Not applicable

Substance name: hexadecan-1-ol		
Environmental Compartment	Value	Note
Fresh water		No hazard identified
Marine water		No hazard identified
intermittent release		No hazard identified
Sewage treatment plant		No hazard identified
Fresh water sediment		No hazard identified
Marine sediment		No hazard identified
Soil	5.8mg/kg dry weight (d.w.)	based on dry weight
Air		No hazard identified

Substance name: octadecan-1-ol		
Environmental Compartment	Value	Note
Fresh water		No hazard identified
Marine water		No hazard identified
intermittent release		No hazard identified
Sewage treatment plant		No hazard identified
Fresh water sediment	56.6 mg/kg	based on dry weight
Marine sediment	5.66 mg/kg	based on dry weight
Soil	11.3 mg/kg	based on dry weight
food		No hazard identified
Air		No hazard identified

Substance name: icosan-1-ol		
Environmental Compartment	Value	Note
Fresh water		No hazard identified
Marine water		No hazard identified
intermittent release		No hazard identified
Sewage treatment plant		No hazard identified
Fresh water sediment	157 mg/kg	based on dry weight
Marine sediment	15.7 mg/kg	based on dry weight

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Soil	31.4 mg/kg	based on dry weight
food		Not relevant / Not applicable
Air		No hazard identified

Substance name: tetradecanol		
Environmental Compartment	Value	Note
Fresh water	0.001 mg/l	
Marine water	0 mg/l	
Sewage treatment plant		No hazard identified
Air		No hazard identified
Fresh water sediment	2.14 mg/kg	based on dry weight
Marine sediment	0.214 mg/kg	based on dry weight
Soil	0.428 mg/kg	based on dry weight
food		No hazard identified

Substance name: dodecan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0.001 mg/l	
Marine water	0 mg/l	
Sewage treatment plant		No hazard identified
Fresh water sediment	0.666 mg/kg	based on dry weight
Marine sediment	0.067 mg/kg	based on dry weight
Soil	0.132 mg/kg	based on dry weight
Air		No hazard identified
food		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 dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.
Respiratory protection	No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.
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

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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
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Protective measures	No special protective equipment required.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Should not be released into the environment.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	solid; 20 °C; 1,013 hPa
Form	solid
Colour	colourless
Odour	characteristic
Odour Threshold	No valid method available.
pH	Not applicable, Justification:, insoluble
Melting point/range	ca. 47 - 56 °C
Boiling point/boiling range	ca. 300 - 355 °C
Flash point	> 155 °C; DIN 51758
Evaporation rate	Not relevant / Not applicable Justification: Solid
Flammability (solid, gas)	not auto-flammable
Lower explosion limit	Not applicable Justification: Solid
Upper explosion limit	Not applicable Justification: Solid
Vapour pressure	< 1 hPa; 20 °C
Relative vapour density	Not applicable, Justification: Solid
Density	ca.0.8 g/cm ³ ; 60 °C; DIN 51757
Water solubility	insoluble

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Partition coefficient: n-octanol/water	not applicable (mixture)
Ignition temperature	ca. 235 °C
Viscosity, dynamic	ca. 8.5 - 9.5 mPas; 60 °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

Additional advice	no data
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note	Stable at normal ambient temperature and pressure.
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10.2 Chemical stability

Note	No decomposition if stored and applied as directed.
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10.3 Possibility of hazardous reactions

Hazardous reactions	Hazardous decomposition products formed under fire conditions.
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10.4 Conditions to avoid

Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
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10.5 Incompatible materials to avoid

Materials to avoid	Strong oxidizing agents; Strong acids
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10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if used as directed.
Thermal decomposition	No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity	hexadecan-1-ol: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 (literature value) Based on available data, the classification criteria are not met.
	octadecan-1-ol: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 (literature value) Based on available data, the classification criteria are not met.

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	<p>tetradecanol: LD50 Rat: > 5,000 mg/kg Based on available data, the classification criteria are not met. The substance or mixture has no acute oral toxicity</p> <p>dodecan-1-ol: LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401 (literature value) Based on available data, the classification criteria are not met.</p>
Acute inhalation toxicity	<p>hexadecan-1-ol: LC50 Rat: > 1.5 mg/l; 1 h maximal attainable concentration The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 1-Tetradecanol Based on available data, the classification criteria are not met. The substance or mixture has no acute inhalation toxicity</p> <p>octadecan-1-ol: Obtaining data is technically impossible. Justification: The LC50 is expected to be greater than the saturated vapour concentration based on weight of evidence across category.</p> <p>tetradecanol: LC50 Rat: > 1.5 mg/l; 1 h Based on available data, the classification criteria are not met. The substance or mixture has no acute inhalation toxicity</p> <p>dodecan-1-ol: LC50 Rat: > 71 mg/l; 1 h Target Organs: Lungs Symptoms: Salivation, Drowsiness, Loss of balance, Shortness of breath The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Decan-1-ol Based on available data, the classification criteria are not met.</p>
Acute dermal toxicity	<p>hexadecan-1-ol: LD50 Dermal Rabbit: > 5,000 mg/kg; Symptoms: Erythema, Emaciation, Weakness The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 1-Tetradecanol Based on available data, the classification criteria are not met.</p> <p>octadecan-1-ol: LD50 Dermal Rabbit: > 5,000 mg/kg; Symptoms: Erythema, Emaciation, Weakness The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 1-Tetradecanol Based on available data, the classification criteria are not met.</p> <p>tetradecanol: LD50 Rabbit: > 5,000 mg/kg; Target Organs: Skin Symptoms: Local irritation Based on available data, the classification criteria are not met. The substance or mixture has no acute dermal toxicity</p> <p>dodecan-1-ol: LD50 Rabbit: > 5,000 mg/kg; Based on available data, the classification criteria are not met.</p>
Skin corrosion/irritation	
Skin irritation	<p>hexadecan-1-ol: Rabbit: not irritating; OECD Test Guideline 404 (literature value)</p>

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	Based on available data, the classification criteria are not met.
	octadecan-1-ol: Rabbit: not irritating; OECD Test Guideline 404 (literature value) Based on available data, the classification criteria are not met.
	tetradecanol: Human: not irritating (literature value) Based on available data, the classification criteria are not met.
	dodecan-1-ol: Human: not irritating; OECD Test Guideline 404 (literature value) Based on available data, the classification criteria are not met.
Human experience -Skin contact	hexadecan-1-ol: not irritating octadecan-1-ol: not irritating
Serious eye damage/eye irritation	
Eye irritation	hexadecan-1-ol: Rabbit: not irritating; OECD Test Guideline 405 (literature value) Based on available data, the classification criteria are not met. octadecan-1-ol: Rabbit: not irritating; OECD Test Guideline 405 (literature value) Based on available data, the classification criteria are not met. tetradecanol: Rabbit: irritating; OECD Test Guideline 405 Causes serious eye irritation. dodecan-1-ol: Rabbit: irritating; OECD Test Guideline 405 Causes serious eye irritation.
Respiratory or skin sensitisation	
Sensitisation	hexadecan-1-ol: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Based on available data, the classification criteria are not met. octadecan-1-ol: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Based on available data, the classification criteria are not met. tetradecanol: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Based on available data, the classification criteria are not met. dodecan-1-ol: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	hexadecan-1-ol: In vitro tests did not show mutagenic effects (literature value) Category approach

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	octadecan-1-ol: In vitro tests did not show mutagenic effects (literature value) Category approach
	tetradecanol: In vitro tests did not show mutagenic effects (literature value) Category approach
	dodecan-1-ol: In vitro tests did not show mutagenic effects (literature value) Category approach
Genotoxicity in vivo	hexadecan-1-ol: In vivo tests did not show mutagenic effects (literature value) Category approach
	octadecan-1-ol: In vivo tests did not show mutagenic effects (literature value) Category approach
	tetradecanol: In vivo tests did not show mutagenic effects (literature value) Category approach
	dodecan-1-ol: In vivo tests did not show mutagenic effects (literature value) Category approach
Remarks	hexadecan-1-ol: Based on available data, the classification criteria are not met.
	octadecan-1-ol: Based on available data, the classification criteria are not met.
	tetradecanol: Based on available data, the classification criteria are not met.
	dodecan-1-ol: Based on available data, the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	hexadecan-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. Category approach
	octadecan-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. Category approach
	tetradecanol: The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential. Category approach
	dodecan-1-ol: The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential. Category approach

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Reproductive toxicity

Reproductive toxicity

hexadecan-1-ol:

Rat; Oral; 90-day

No toxicity to reproduction

Category approach

octadecan-1-ol:

Rat; Oral; 55-day; OECD Test Guideline 422

No toxicity to reproduction

(literature value)

tetradecanol:

Rat; Oral; 55-day

Animal testing did not show any effects on fertility.

(literature value)

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

Test substance: dodecan-1-ol

dodecan-1-ol:

Rat; Oral; 55-day

(literature value)

Animal testing did not show any effects on fertility.

literature value

RemarksReproductive toxicity

hexadecan-1-ol:

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

octadecan-1-ol:

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

tetradecanol:

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

dodecan-1-ol:

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

Teratogenicity

hexadecan-1-ol:

Rat; Oral; OECD Test Guideline 422

Did not show teratogenic effects in animal experiments.

(literature value)

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

Test substance: dodecan-1-ol

octadecan-1-ol:

Rat; Oral; OECD Test Guideline 422

Did not show teratogenic effects in animal experiments.

(literature value)

tetradecanol:

Rat; Oral

Did not show teratogenic effects in animal experiments.

(literature value)

Category approach

dodecan-1-ol:

Rat; Oral; OECD Test Guideline 422

(literature value)

Did not show teratogenic effects in animal experiments.

Remarks-Teratogenicity

hexadecan-1-ol:

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

octadecan-1-ol:

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

tetradecanol:

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

dodecan-1-ol:

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

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STOT - single exposure**Remarks**

hexadecan-1-ol:

The substance or mixture is not classified as specific target organ toxicant, single exposure.

octadecan-1-ol:

The substance or mixture is not classified as specific target organ toxicant, single exposure.

tetradecanol:

The substance or mixture is not classified as specific target organ toxicant, single exposure.

dodecan-1-ol:

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure**Remarks**

hexadecan-1-ol:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

octadecan-1-ol:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

tetradecanol:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

dodecan-1-ol:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

hexadecan-1-ol:

Rat; oral feed; 90-day

NOAEL: 4,400 mg/kg (based on body weight and day)
(literature value)

octadecan-1-ol:

Rat; oral feed; 90-day

NOAEL: 4,400 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: Hexadecan-1-ol

tetradecanol:

Rat; oral feed; 90-day

NOAEL: 3,548 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: Alcohols, C14-15- branched and linear

dodecan-1-ol:

Rat; oral feed; 56 days

NOAEL: 2,000 mg/kg (based on body weight and day); OECD Test Guideline 422
(literature value)**Aspiration hazard****Aspiration toxicity**

hexadecan-1-ol:

Not applicable

octadecan-1-ol:

Not applicable

tetradecanol:

Not applicable

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dodecan-1-ol:
Not applicable

Toxicological information

hexadecan-1-ol:
Toxicokinetics
The substance is poorly absorbed via skin.
Components of the product may be absorbed into the body by ingestion.
The substance is metabolised and excreted.

octadecan-1-ol:
Toxicokinetics
The substance is poorly absorbed via skin.
Components of the product may be absorbed into the body by ingestion.
The substance is metabolised and excreted.

tetradecanol:
Toxicokinetics
The substance is poorly absorbed via skin.
The substance is metabolised and excreted.

dodecan-1-ol:
Toxicokinetics
The substance is poorly absorbed via skin.
The substance is metabolised and excreted.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

hexadecan-1-ol:
(96 h) Salmo gairdneri ; semi-static test; OECD Test Guideline 203
(literature value)
In the range of water solubility not toxic under test conditions.

octadecan-1-ol:
(96 h) Oncorhynchus mykiss (rainbow trout) ; semi-static test; OECD Test Guideline 203
In the range of water solubility not toxic under test conditions.
(literature value)

tetradecanol:
LC50 (96 h) Oncorhynchus mykiss (rainbow trout): > 1 mg/l ; semi-static test;
OECD Test Guideline 203
(literature value)

dodecan-1-ol:
LC50 (96 h) Pimephales promelas (fathead minnow): > 1 - 10 mg/l ; flow-through test; US EPA 1975
(literature value)

Toxicity to fish - Chronic toxicity

hexadecan-1-ol:
The study is not necessary.
Sufficient information is available to predict no toxicity at the limit of solubility.

octadecan-1-ol:
The study is not necessary.
Sufficient information is available to predict no toxicity at the limit of solubility.

tetradecanol:
study scientifically unjustified

dodecan-1-ol:
study scientifically unjustified

Toxicity to daphnia and other

hexadecan-1-ol:

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aquatic invertebrates

(48 h) Daphnia magna (Water flea) ; calculated; QSAR (literature value)
In the range of water solubility not toxic under test conditions.

octadecan-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.
(literature value)

tetradecanol:
Daphnia magna (Water flea) ; semi-static test; OECD Test Guideline 202
In the range of water solubility not toxic under test conditions.
(literature value)

dodecan-1-ol:
EC50 (48 h) Daphnia magna (Water flea): > 0.1 - 1 mg/l ; static test; OECD Test Guideline 202

Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity

hexadecan-1-ol:
The study is not necessary.
Sufficient information is available to predict no toxicity at the limit of solubility.

octadecan-1-ol:
NOEC (21 d) Daphnia magna (Water flea); reproduction rate; flow-through test; EPA OPPTS 850.1300 (literature value)
In the range of water solubility not toxic under test conditions.
Test substance: Octadecanol, branched

tetradecanol:
EC10 (21 d) Daphnia magna (Water flea): 0.0063 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211 (literature value)

dodecan-1-ol:
NOEC (21 d) Daphnia magna (Water flea): > 0.01 - 0.1 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211

Toxicity to aquatic plants

hexadecan-1-ol:
(96 h) Desmodesmus subspicatus (green algae) ; static test; OECD Test Guideline 201; (literature value)
In the range of water solubility not toxic under test conditions.

octadecan-1-ol:
(96 h) Desmodesmus subspicatus (green algae) ; static test; OECD Test Guideline 201; In the range of water solubility not toxic under test conditions.
(literature value)

tetradecanol:
Desmodesmus subspicatus (green algae) ; Growth rate; static test; In the range of water solubility not toxic under test conditions.
(literature value)

dodecan-1-ol:
ErC50 (72 h) Desmodesmus subspicatus (green algae): > 0.1 - 1 mg/l ; static test; OECD Test Guideline 201

dodecan-1-ol:
NOEC (72 h) Desmodesmus subspicatus (green algae): 0.085 mg/l ; cell number; static test; OECD Test Guideline 201

Toxicity to bacteria

hexadecan-1-ol:
No data available
The substance is not to be considered to be inhibitory to bacteria.

octadecan-1-ol:
No data available
The substance is not to be considered to be inhibitory to bacteria.

tetradecanol:
The substance is not to be considered to be inhibitory to bacteria.
Category approach

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Toxicity to soil dwelling organisms

dodecan-1-ol:
EC0 (30 min) *Pseudomonas putida*: > 10,000 mg/l; Respiration inhibition; DIN 38412
(literature value)
Category approach

hexadecan-1-ol:
No data available

octadecan-1-ol:
No data available

tetradecanol:
LC50 (72 h) *Caenorhabditis elegans*, Worm (Nematoda): > 1,000 mg/kg; mortality
(literature value)

tetradecanol:
EC50 (7 d) *Folsomia candida*, Arthropod (Collembola): 530 mg/kg; Immobilization
(literature value)

dodecan-1-ol:
No data available

Toxicity to terrestrial flora

tetradecanol:
No data available

12.2 Persistence and degradability

Biodegradability

hexadecan-1-ol:
Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
(literature value)

hexadecan-1-ol:
Biodegradable; > 60 %; 28 d; anaerobic
(literature value)

octadecan-1-ol:
Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
(literature value)

octadecan-1-ol:
Biodegradable; > 60 %; 56 d; anaerobic
Category approach
(literature value)

tetradecanol:
Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
(literature value)

tetradecanol:
Biodegradable; > 60 %; 56 d; anaerobic
Category approach
(literature value)

dodecan-1-ol:
Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301D
(literature value)

dodecan-1-ol:
Biodegradable; > 60 %; 56 d; anaerobic
Category approach
(literature value)

12.3 Bioaccumulative potential

Bioaccumulation

hexadecan-1-ol:
Bioaccumulation is unlikely.

octadecan-1-ol:
Bioaccumulation is unlikely.

tetradecanol:
Fish; Bioconcentration factor (BCF): 190 - 1,000; QSAR

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Bioaccumulation is unlikely.
(literature value)

dodecan-1-ol:
Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility

hexadecan-1-ol:
Adsorption/Soil; Koc: 143000; log Koc: 5.15; calculated
immobile
strong adsorption to soil
The substance and its relevant degradation products decompose rapidly.

octadecan-1-ol:
Adsorption/Soil; Koc: 471350; log Koc: 5.67; OECD Test Guideline 106
immobile
strong adsorption to soil
The substance and its relevant degradation products decompose rapidly.

tetradecanol:
Adsorption/Soil/Sewage sludge; Koc: 33983; log Koc: 4.53; OECD Test Guideline 121
(literature value)
immobile
strong adsorption to soil
The substance and its relevant degradation products decompose rapidly.

dodecan-1-ol:
Adsorption/Soil; Koc: 17980; log Koc: 4.25; calculated
immobile
strong adsorption to soil
The substance and its relevant degradation products decompose rapidly.

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 hexadecan-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).

octadecan-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).

tetradecanol:
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).

dodecan-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

hexadecan-1-ol:
None known.

octadecan-1-ol:

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	None known.
	tetradecanol: Very toxic to aquatic life with long lasting effects.
	dodecan-1-ol: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
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.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Can be incinerated, when in compliance with local regulations.
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
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 Proper shipping name

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

14.4 Packing group

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

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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**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

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)
New Zealand. Inventory of Chemical Substances	NZIOC	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

octadecan-1-ol

A Chemical Safety Assessment has been carried out for this substance. An annex to the MSDS is not required.

hexadecan-1-ol

A Chemical Safety Assessment has been carried out for this substance. An annex to the MSDS is not required.

tetradecanol

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

dodecan-1-ol

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

SECTION 16: OTHER INFORMATION

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

H319

Causes serious eye irritation.

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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

1. Identification of the substance/mixture and of the company/undertaking
8. Exposure controls/personal protection
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 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

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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.

hexadecan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000062_EN_01.pdf

octadecan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000063_EN_01.pdf

tetradecanol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000101_EN_01.pdf

dodecan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000100_EN_01.pdf
