

**NAFOL 810 D**

Version: 7.03

Revision Date 2017/03/24

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****Trade name** NAFOL 810 D**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Use** Industrial use  
raw material for washing and cleaning agents  
raw material for textile auxiliary agents  
raw material for synthesis processes in the chemical industry  
raw material for lubricants and lubricant additives

**Uses advised against**

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

**Company** SASOL Germany GmbH  
Anckelmannsplatz 1  
20537 Hamburg

Telephone: +49 40 63684-1000  
Telefax: +49 40 63684-3700

**Information (Product safety):** Telephone: + 49 (0) 23 65 - 49 47 05  
Telefax: + 49 (0) 23 65 - 49 92 40

**E-mail address** msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

**Emergency telephone number** + 49 (0) 5 51 - 1 92 40 (GIZ-Nord Poisons Centre)

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation Category 2

Causes serious eye irritation.

Chronic aquatic toxicity Category 3

Harmful to aquatic life with long lasting effects.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)****Hazard pictograms****Signal word**

Warning

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## Hazard statements

H319 Causes serious eye irritation.  
 H412 Harmful to aquatic life with long lasting effects.

## Precautionary statements

P264 Wash skin thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P391 Collect spillage.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

### CHEMICAL CHARACTERIZATION

Alcohol blend, C8-10

### 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

#### Octan-1-ol

**content:** >= 39 - <= 63 % **component type:** Active ingredient

**EC-No.:** 203-917-6 **Index-No.:** **CAS-No.:** 111-87-5  
**REACH No.:** 01-2119486978-10-0000  
**Substance name (REACH / CLP):** octan-1-ol  
**Classification (Regulation (EC) No 1272/2008):** Eye Irrit. 2 H319  
 Aquatic Chronic 3 H412

#### Decan-1-ol

**content:** >= 35 - <= 59 % **component type:** Active ingredient

**EC-No.:** 203-956-9 **Index-No.:** **CAS-No.:** 112-30-1  
**REACH No.:** 01-2119480407-35-XXXX  
**Substance name (REACH / CLP):** decan-1-ol  
**Classification (Regulation (EC) No 1272/2008):** Eye Irrit. 2 H319  
 Aquatic Chronic 3 H412

#### Dodecan-1-ol

**content:** < 1 % **component type:** Impurity

**EC-No.:** 203-982-0 **Index-No.:** **CAS-No.:** 112-53-8  
**Classification (Regulation (EC) No 1272/2008):** Eye Irrit. 2 H319  
 Aquatic Acute 1 H400  
 Aquatic Chronic 2 H411

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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**

<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.
<b>If inhaled</b>	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off with plenty of water.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed</b>	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**

<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms: No information available. Risks: No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: No information available.
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**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Water spray, Dry powder, Foam, Carbon dioxide (CO2)
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**5.2 Special hazards arising from the substance or mixture**

<b>Specific hazards during firefighting</b>	Dangerous gases or fumes may occur in case of fire.
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**5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
<b>Further information</b>	Cool closed containers exposed to fire with water spray. Closed container may rupture if strongly heated. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Use personal protective equipment.
<b>Special precautions</b>	Forms slippery/greasy layers with water. Spilling onto the container's outside will make container slippery. Danger of slipping after spill or leakage.

**6.2 Environmental precautions**

<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water. Avoid subsoil penetration. Do not allow material to contaminate ground water system.
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**6.3 Methods and materials for containment and cleaning up**

<b>Methods for cleaning up</b>	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.

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**SECTION 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

<b>Advice on safe handling</b>	Wear personal protective equipment.
<b>Advice on protection against fire and explosion</b>	No special protective measures against fire required.
<b>Fire-fighting class</b>	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**

<b>Requirements for storage areas and containers</b>	No special storage conditions required.
<b>Further information on storage conditions</b>	Protect from frost, heat and sunlight.
<b>Storage class (TRGS 510)</b>	10: Combustible liquids not in Storage Class 3
<b>Other data</b>	Stable at normal ambient temperature and pressure.

**7.3 Specific end use(s)**

<b>Specific use(s)</b>	This information is not available.
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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

###### National occupational exposure limits

No data available

###### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

##### DERIVED NO EFFECT LEVEL (DNEL)

Substance name: decan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	250 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	176 mg/m <sup>3</sup>	
	dermal, long-term exposure - local effects	0.19 mg/cm <sup>2</sup>	
	Inhalation, long-term exposure - local effects	129 mg/m <sup>3</sup>	
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Oral, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	125 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	43.5 mg/m <sup>3</sup>	
	Oral, long-term exposure - systemic effects	12.5 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects	0.067 mg/cm <sup>2</sup>	
Inhalation, long-term exposure - local effects		Not relevant / not applicable	

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Substance name: octan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects	125 mg/kg	based on body weight and day
	Inhalation, Acute/short-term exposure - systemic effects	220 mg/m3	
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	125 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	220 mg/m3	
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable
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	75 mg/kg	based on body weight and day
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	75 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	65 mg/m3	
	Oral, long-term exposure - systemic effects	75 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable

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## PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: decan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0.042 mg/l	
Marine water	0.0042 mg/l	
intermittent release	0.08 mg/l	
treatment plant	1.5 mg/l	
Fresh water sediment	7 mg/kg	based on dry weight
Marine sediment	0.7 mg/kg	based on dry weight
Soil	1.27 mg/kg	based on dry weight
Air		Not relevant / not applicable
food		Not relevant / not applicable

Substance name: octan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0.2 mg/l	
Marine water	0.02 mg/l	
intermittent release		Not relevant / not applicable
treatment plant	5.5 mg/l	
Fresh water sediment	2.1 mg/kg	based on dry weight
Marine sediment	0.21 mg/kg	based on dry weight
Soil	1.6 mg/kg	based on dry weight
food		Not relevant / not applicable

## 8.2 Exposure controls

### ENGINEERING MEASURES

Provide sufficient air exchange and/or exhaust in work rooms.

### 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 notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

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### 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

### unsuitable gloves

Material: Natural rubber/natural latex, Polyvinylchloride

<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Wear suitable protective equipment.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.
<b>Protective measures</b>	Avoid contact with eyes. Wear suitable gloves and eye/face protection.

### ENVIRONMENTAL EXPOSURE CONTROLS

<b>General advice</b>	Do not let product enter drains. Do not flush into surface water. Avoid subsoil penetration. Do not allow material to contaminate ground water system.
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid; 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
<b>pour point</b>	ca. -11 °C
<b>Boiling point/boiling range</b>	ca. 195 - 240 °C
<b>Flash point</b>	ca. > 80 °C; DIN 51758
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not applicable (liquid)
<b>Lower explosion limit</b>	ca. 0.80 %(V)
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	ca. < 1.000 hPa; 20 °C
<b>Relative vapour density</b>	No data available

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Density	ca.0.8 g/cm <sup>3</sup> ; 20 °C; DIN 51757
Water solubility	ca. 0.9 g/l; 25 °C
Partition coefficient: n-octanol/water	not applicable (mixture)
Ignition temperature	ca. 260 °C
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 11 mPas; 20 °C
Explosive properties	Constituents do not contain chemical groups associated with explosivity.
Oxidizing properties	not expected based on structure and functional groups

**9.2 Other data**

None known.

**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

**Note** Stable at normal ambient temperature and pressure.

**10.2 Chemical stability**

**Note** No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** Hazardous decomposition products formed under fire conditions.

**10.4 Conditions to avoid**

**Conditions to avoid** Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

**10.5 Incompatible materials to avoid****10.6 Hazardous decomposition products**

**Hazardous decomposition products** No decomposition if stored and applied as directed.

**Thermal decomposition** Stable under normal conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

Decan-1-ol:  
LD50 Rat: > 5.000 mg/kg; OPPTS 870.1100  
(literature value)  
Based on available data, the classification criteria are not met.

Octan-1-ol:  
LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401  
(literature value)  
Based on available data, the classification criteria are not met.

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<b>Acute inhalation toxicity</b>	<p>Decan-1-ol: LC50 Rat: &gt; 71 mg/l; 1 h Target Organs: Lungs Symptoms: Salivation, Drowsiness, Shortness of breath (literature value) Based on available data, the classification criteria are not met.</p> <p>Octan-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>
<b>Acute dermal toxicity</b>	<p>Decan-1-ol: LD50 Dermal Rabbit: &gt; 2,000 mg/kg; OPPTS 870.1200 Target Organs: Skin Symptoms: Local irritation (literature value) Based on available data, the classification criteria are not met.</p> <p>Octan-1-ol: LD50 Dermal Rabbit: &gt; 2,000 mg/kg; Target Organs: Skin Symptoms: Swollen corrosion of the mucous membranes Based on available data, the classification criteria are not met.</p>
<b>Skin corrosion/irritation</b>	
<b>Skin irritation</b>	<p>Decan-1-ol: Rabbit: moderately irritating; OPPTS 870.2500 (literature value) Based on available data, the classification criteria are not met.</p> <p>Octan-1-ol: Rabbit: slightly irritating; OECD Test Guideline 404 (literature value) Based on available data, the classification criteria are not met.</p>
<b>Human experience -Skin contact</b>	<p>Decan-1-ol: not irritating (literature value)</p>
<b>Serious eye damage/eye irritation</b>	
<b>Eye irritation</b>	<p>Decan-1-ol: Rabbit: irritating; OPPTS 870.2400 (literature value) Causes serious eye irritation.</p> <p>Octan-1-ol: Rabbit: irritating; OECD Test Guideline 405 (literature value) Causes serious eye irritation.</p>
<b>Respiratory or skin sensitisation</b>	
<b>Sensitisation</b>	<p>Decan-1-ol: Buehler Test Guinea pig: not sensitizing; OPPTS 870.2600 (literature value) Based on available data, the classification criteria are not met.</p> <p>Octan-1-ol: Draize Test Guinea pig: not sensitizing (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Hexan-1-ol Based on available data, the classification criteria are not met.</p>
<b>Germ cell mutagenicity</b>	

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## Genotoxicity in vitro

Decan-1-ol:  
In vitro tests did not show mutagenic effects  
(literature value)  
Category approach

Octan-1-ol:  
In vitro tests did not show mutagenic effects  
(literature value)  
Category approach

## Genotoxicity in vivo

Decan-1-ol:  
In vivo tests did not show mutagenic effects  
(literature value)  
Category approach

Octan-1-ol:  
In vivo tests did not show mutagenic effects  
(literature value)  
Category approach

## Remarks

Decan-1-ol:  
Based on available data, the classification criteria are not met.

Octan-1-ol:  
Based on available data, the classification criteria are not met.

## Carcinogenicity

### Carcinogenicity

Decan-1-ol:  
The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.  
Category approach

Octan-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

### Reproductive toxicity

Decan-1-ol:  
Rat; Oral; 55-day  
NOAEL ((parents)): 2,000 mg/kg (based on body weight and day)  
NOAEL (F1): 2,000 mg/kg (based on body weight and day); OECD Test Guideline 422  
(literature value)

The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
Test substance: dodecan-1-ol

Octan-1-ol:  
Rat; Oral; 90-day  
NOAEL ((parents)): 1,127 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: Hexan-1-ol

### RemarksReproductive toxicity

Decan-1-ol:  
Based on available data, the classification criteria are not met.

Octan-1-ol:  
Based on available data, the classification criteria are not met.

### Teratogenicity

Decan-1-ol:  
Rat; Oral  
NOAEL: 1,300 mg/kg (based on body weight and day)  
NOAEL (pregnant female): 130 mg/kg (based on body weight and day); OECD Test Guideline 414  
(literature value)  
The data are derived from the evaluations or test results achieved with similar

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	<p>products (conclusion by analogy). Test substance: octan-1-ol</p> <p>Octan-1-ol: Rat; Oral NOAEL: 1,300 mg/kg (based on body weight and day); OECD Test Guideline 414 (literature value)</p>
<b>Remarks-Teratogenicity</b>	<p>Decan-1-ol: Based on available data, the classification criteria are not met.</p> <p>Octan-1-ol: Based on available data, the classification criteria are not met.</p>
<b>STOT - single exposure</b>	
<b>Remarks</b>	<p>Decan-1-ol: The substance or mixture is not classified as specific target organ toxicant, single exposure.</p> <p>Octan-1-ol: The substance or mixture is not classified as specific target organ toxicant, single exposure.</p>
<b>STOT - repeated exposure</b>	
<b>Remarks</b>	<p>Decan-1-ol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p> <p>Octan-1-ol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p>
<b>Repeated dose toxicity</b>	<p>Decan-1-ol: Rat; Oral; Subchronic toxicity NOAEL: 2,000 mg/kg (based on body weight and day); OECD Test Guideline 422 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: dodecan-1-ol</p> <p>Octan-1-ol: Rat; Oral; Subchronic toxicity NOAEL: 1,127 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: Hexan-1-ol</p>
<b>Aspiration hazard</b>	
<b>Aspiration toxicity</b>	<p>Decan-1-ol: Based on available data, the classification criteria are not met.</p> <p>Octan-1-ol: Based on available data, the classification criteria are not met.</p>
<b>Human experience</b>	<p>Octan-1-ol: Mild skin irritation (literature value)</p>
<b>Toxicological information</b>	<p>Decan-1-ol: Toxicokinetics, metabolism and distribution extensive and rapid metabolisation (literature value)</p> <p>Octan-1-ol: Toxicokinetics, metabolism and distribution</p>

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Based on the available structural data, phys-chem properties and toxicology data, it is likely that the substance is very poorly absorbed.  
The substance is metabolised and excreted.  
(literature value)  
Category approach

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

<b>Toxicity to fish</b>	Decan-1-ol: LC50 (96 h) Pimephales promelas (fathead minnow): > 1 - 10 mg/l ; flow-through test; OECD Test Guideline 203 (literature value)  Octan-1-ol: LC50 (96 h) Pimephales promelas (fathead minnow): > 10 - 100 mg/l ; flow-through test; OECD Test Guideline 203 (literature value)
<b>Toxicity to fish - Chronic toxicity</b>	Decan-1-ol: EC10 (33 d) Pimephales promelas (fathead minnow): 0.43 mg/l; mortality; flow-through test; OECD Test Guideline 210  Octan-1-ol: NOEC (7 d) Pimephales promelas (fathead minnow): > 1 - 10 mg/l; mortality; flow-through test (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Decan-1-ol: LC50 (96 h) Nitocra spinipes: > 1 - 10 mg/l ; static test; OECD Test Guideline 202 (literature value)  Octan-1-ol: EC50 (24 h) Daphnia magna (Water flea): > 10 - 100 mg/l ; static test (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	Decan-1-ol: NOEC (21 d) Daphnia magna (Water flea): 0.11 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211; (literature value)  Octan-1-ol: NOEC (21 d) Daphnia magna (Water flea): 1 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211; (literature value)
<b>Toxicity to aquatic plants</b>	Decan-1-ol: EC50 (72 h) algae: > 1 - 10 mg/l ; calculated; (literature value) Category approach  Octan-1-ol: ErC50 (48 h) Desmodesmus subspicatus (Scenedesmus subspicatus): > 10 - 100 mg/l ; static test; OECD Test Guideline 201; (literature value)
<b>Toxicity to bacteria</b>	Decan-1-ol: The study is not necessary. Justification: Readily biodegradable.  Octan-1-ol: The study is not necessary. Justification: Readily biodegradable. The substance is not to be considered to be inhibitory to bacteria.
<b>Toxicity to soil dwelling organisms</b>	Decan-1-ol: EC50 (72 h) Caenorhabditis elegans, Worm (Nematoda): 98 mg/kg; mortality (literature value)

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	<p>Octan-1-ol: The study is not necessary. Justification: Readily biodegradable.</p>
<b>Toxicity to terrestrial flora</b>	<p>Decan-1-ol: The study is not necessary. Justification: Readily biodegradable.</p>
	<p>Octan-1-ol: The study is not necessary. Justification: Readily biodegradable.</p>
<b>Toxicity for other terrestrial non-mammalian fauna</b>	<p>Decan-1-ol: The study is not necessary. Studies on birds do not need to be conducted due to large mammalian dataset.</p>
	<p>Octan-1-ol: The study is not necessary. Studies on birds do not need to be conducted due to large mammalian dataset.</p>
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	<p>Decan-1-ol: &gt; 60 %; 30 d; aerobic; OECD Test Guideline 301D (literature value)</p> <p>Octan-1-ol: Readily biodegradable.; &gt; 60 %; 28 d; aerobic; Closed Bottle test (literature value)</p>
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	<p>Decan-1-ol: Bioconcentration factor (BCF): 20; calculated Bioaccumulation is unlikely.</p> <p>Octan-1-ol: Bioaccumulation is unlikely.</p>
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	<p>Decan-1-ol: Adsorption/Soil/Sewage sludge; Medium: water - soil; Koc: 1010 - 1433; OECD Test Guideline 106 Slightly mobile in soils</p> <p>Octan-1-ol: Adsorption/Soil; Koc: 450; calculated Moderately mobile in soils The substance and its relevant degradation products decompose rapidly.</p>
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	<p>Decan-1-ol: Based on available data, the classification criteria are not met. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).</p> <p>Octan-1-ol: Based on available data, the classification criteria are not met. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).</p>
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	<p>Decan-1-ol: Harmful to aquatic life with long lasting effects.</p>

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Octan-1-ol:  
Harmful to aquatic life with long lasting effects.

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

<b>Product</b>	Can be incinerated, when in compliance with local regulations.
<b>Contaminated packaging</b>	Empty remaining contents.
<b>waste code of the European Union: EWC</b>	The waste code must be determined in agreement with the regional waste disposal authority or company. A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.2 Proper shipping name**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.3 Transport hazard class**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.4 Packing group**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.5 Environmental hazards**

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<b>ADR</b>	Environmentally hazardous	no
<b>RID</b>	Environmentally hazardous	no
<b>ADN</b>	Environmentally hazardous	no
<b>IMDG</b>	Marine pollutant	no
<b>ICAO/IATA</b>	Environmentally hazardous	no

### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No information available.

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Occupational restrictions** Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

#### NATIONAL/OTHER REGULATIONS

**Legislation on the control of major-accident hazards involving dangerous substances** Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
list entry in the directive:: Not applicable

#### NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	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. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	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.

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### 15.2 Chemical safety assessment

#### decan-1-ol

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

#### octan-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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Safety datasheet sections which have been updated:

- 2. Hazards identification
- 3. Composition/information on ingredients
- 8. Exposure controls/personal protection
- 12. Ecological information
- 15. Regulatory information

### Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

### Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization

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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.**

**octan-1-ol**

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000098\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000098_EN_01.pdf)

**decan-1-ol**

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/CON0000000023\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/CON0000000023_EN_01.pdf)

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