

NAFOL 810 D

Version: 7.03

Revision Date 24.03.2017

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

Trade name	NAFOL 810 D
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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)
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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**

Eye Irrit. 2

H319

(EC) No 1272/2008):

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**

Eye Irrit. 2

H319

(EC) No 1272/2008):

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**

Eye Irrit. 2

H319

(EC) No 1272/2008):

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**

General advice	If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
In case of skin contact	Wash off with plenty of water.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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 (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

Special protective equipment for firefighters	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
Further information	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

Personal precautions	Use personal protective equipment.
Special precautions	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

Environmental precautions	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

Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Wear personal protective equipment.
Advice on protection against fire and explosion	No special protective measures against fire required.
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.
Further information on storage conditions	Protect from frost, heat and sunlight.
Storage class (TRGS 510)	10: Combustible liquids not in Storage Class 3
Other data	Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Specific use(s)	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/m3	
	dermal, long-term exposure - local effects	0,19 mg/cm2	
	Inhalation, long-term exposure - local effects	129 mg/m3	
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/m3	
	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/cm2	
	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: ≥ 480 min
Layer thickness: 0,35 mm

Material: butyl-rubber
Break through time: ≥ 480 min
Layer thickness: 0,5 mm

unsuitable gloves

Material: Natural rubber/natural latex, Polyvinylchloride

Eye protection

Tightly fitting safety goggles

Skin and body protection

Wear suitable protective equipment.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.

Protective measures

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

ENVIRONMENTAL EXPOSURE CONTROLS**General advice**

Do not let product enter drains.
Do not flush into surface water.
Avoid subsoil penetration.
Do not allow material to contaminate ground water system.

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

Physical state	liquid; 20 °C; 1.013 hPa
Form	liquid
Colour	colourless
Odour	characteristic
Odour Threshold	No data available
pH	Not applicable
pour point	ca. -11 °C
Boiling point/boiling range	ca. 195 - 240 °C
Flash point	ca. > 80 °C; DIN 51758
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	ca. 0,80 %(V)
Upper explosion limit	No data available
Vapour pressure	ca. < 1,000 hPa; 20 °C
Relative vapour density	No data available

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Density	ca.0,8 g/cm ³ ; 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

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

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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Acute inhalation toxicity

Decan-1-ol:
LC50 Rat: > 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.

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.

Acute dermal toxicity

Decan-1-ol:
LD50 Dermal Rabbit: > 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.

Octan-1-ol:
LD50 Dermal Rabbit: > 2.000 mg/kg;
Target Organs: Skin
Symptoms: Swollen corrosion of the mucous membranes
Based on available data, the classification criteria are not met.

Skin corrosion/irritation**Skin irritation**

Decan-1-ol:
Rabbit: moderately irritating; OPPTS 870.2500
(literature value)
Based on available data, the classification criteria are not met.

Octan-1-ol:
Rabbit: slightly irritating; OECD Test Guideline 404
(literature value)
Based on available data, the classification criteria are not met.

Human experience -Skin contact

Decan-1-ol:
not irritating
(literature value)

Serious eye damage/eye irritation**Eye irritation**

Decan-1-ol:
Rabbit: irritating; OPPTS 870.2400
(literature value)
Causes serious eye irritation.

Octan-1-ol:
Rabbit: irritating; OECD Test Guideline 405
(literature value)
Causes serious eye irritation.

Respiratory or skin sensitisation**Sensitisation**

Decan-1-ol:
Buehler Test Guinea pig: not sensitizing; OPPTS 870.2600
(literature value)
Based on available data, the classification criteria are not met.

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.

Germ cell mutagenicity

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Genotoxicity in vitro	<p>Decan-1-ol: In vitro tests did not show mutagenic effects (literature value) Category approach</p> <p>Octan-1-ol: In vitro tests did not show mutagenic effects (literature value) Category approach</p>
Genotoxicity in vivo	<p>Decan-1-ol: In vivo tests did not show mutagenic effects (literature value) Category approach</p> <p>Octan-1-ol: In vivo tests did not show mutagenic effects (literature value) Category approach</p>
Remarks	<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>
Carcinogenicity	
Carcinogenicity	<p>Decan-1-ol: The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential. Category approach</p> <p>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.</p>
Reproductive toxicity	
Reproductive toxicity	<p>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</p> <p>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</p>
RemarksReproductive toxicity	<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>
Teratogenicity	<p>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</p>

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	products (conclusion by analogy). Test substance: octan-1-ol
	Octan-1-ol: Rat; Oral NOAEL: 1.300 mg/kg (based on body weight and day); OECD Test Guideline 414 (literature value)
Remarks-Teratogenicity	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.
STOT - single exposure	
Remarks	Decan-1-ol: The substance or mixture is not classified as specific target organ toxicant, single exposure. Octan-1-ol: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	Decan-1-ol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Octan-1-ol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	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 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
Aspiration hazard	
Aspiration 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.
Human experience	Octan-1-ol: Mild skin irritation (literature value)
Toxicological information	Decan-1-ol: Toxicokinetics, metabolism and distribution extensive and rapid metabolism (literature value) Octan-1-ol: Toxicokinetics, metabolism and distribution

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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****Toxicity to fish**

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)

Toxicity to fish - Chronic toxicity

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)

Toxicity to daphnia and other aquatic invertebrates

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)

Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity

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)

Toxicity to aquatic plants

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)

Toxicity to bacteria

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.

Toxicity to soil dwelling organisms

Decan-1-ol:
EC50 (72 h) Caenorhabditis elegans, Worm (Nematoda): 98 mg/kg; mortality
(literature value)

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

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

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

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

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

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

14.2 Proper shipping name

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

14.3 Transport hazard class

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

14.4 Packing group

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

14.5 Environmental hazards

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

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Remarks No information available.

SECTION 15: REGULATORY INFORMATION

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

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

NATIONAL/OTHER REGULATIONS

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

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

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

decan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/CON0000000023_EN_01.pdf
