

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Sokrena

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

Use of the Substance/Mixture : In-door use  
Disinfectants and general biocidal products, For further information, refer to the product technical data sheet.

Recommended restrictions on use : Restricted to professional users.

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

Manufacturer, importer, supplier : BODE Chemie GmbH  
Melanchthonstraße 27  
22525 Hamburg  
Tel.: +49 (0)40 / 54 00 60

Responsible Department : Scientific Affairs  
KundenService-SiDa@bode-chemie.de

**1.4 Emergency telephone number**

Emergency telephone number : Giftnotruf Göttingen  
24h-Phone +49 (0)551 / 1 92 40

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC)**

Flammable	R10: Flammable.
Irritant	R38: Irritating to skin.
	R41: Risk of serious damage to eyes.
Dangerous for the environment	R50: Very toxic to aquatic organisms.

**2.2 Label elements****Labelling according to EC Directives: 1999/45/EC**

Hazard symbols :



Irritant



Dangerous for the environment

R-phrases) : R10 Flammable.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R50 Very toxic to aquatic organisms.

S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S35 This material and its container must be disposed of in a safe way.  
 S37/39 Wear suitable gloves and eye/face protection.  
 S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Hazardous components which must be listed on the label:

7173-51-5 didecyldimethylammonium chloride

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
didecyldimethylammonium chloride	7173-51-5 230-525-2 01-2119945987-15	N; R50 Xn; R22 C; R34	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400	>= 5 - < 10
propan-2-ol	67-63-0 200-661-7 01-2119457558-25	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 3 - < 10
Alcohols, C12-14. ethoxylated	68439-50-9	Xn; R22-R41	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 3 - < 5
tetrasodium ethylene diamine tetraacetate	64-02-8 200-573-9	Xn; R22 Xi; R41	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318	>= 1 - < 3

For the full text of the R-phrases mentioned in this Section, see Section 16.

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 : Consult a physician.
- If inhaled : If breathed in, move person into fresh air.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off with soap and water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If swallowed : Rinse mouth.  
Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

no data available

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : none

**5.2 Special hazards arising from the substance or mixture**

no data available

**5.3 Advice for firefighters**

- Special protective equipment for firefighters : Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Ensure adequate ventilation.

**6.2 Environmental precautions**

- Environmental precautions : Should not be released into the environment.

**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).  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Prepare the working solution as given on the label(s) and/or the user instructions.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Keep away from food and drink.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store at room temperature in the original container. Keep tightly closed.

Advice on common storage : Keep away from food and drink. Do not store near acids.

**7.3 Specific end use(s)**

no data available

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Contains no substances with occupational exposure limit values.

DNEL  
propan-2-ol (CAS: 67-63-0) : End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Chronic effects  
Value: 888 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Chronic effects  
Value: 500 mg/m<sup>3</sup>

	End Use: Consumers Exposure routes: Skin contact Potential health effects: Chronic effects Value: 319 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Chronic effects Value: 89 mg/m <sup>3</sup>
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Chronic effects Value: 26 mg/kg
tetrasodium ethylene diamine tetraacetate (CAS: 64-02-8)	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 2,5 mg/m <sup>3</sup>
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 1,5 mg/m <sup>3</sup>
PNEC propan-2-ol (CAS: 67-63-0)	: Fresh water Value: 140,9 mg/l
	Marine water Value: 140,9 mg/l
	Fresh water sediment Value: 552 mg/kg
	Marine sediment Value: 552 mg/kg
	Soil Value: 28 mg/kg
tetrasodium ethylene diamine tetraacetate (CAS: 64-02-8)	: Marine water Value: 0,22 mg/l
	Soil Value: 0,72 mg/l
	Fresh water Value: 2,2 mg/l

**8.2 Exposure controls****Personal protective equipment**Eye protection : Tightly fitting safety gogglesHand protection

In case of full contact: Nitrile rubber

Material : Protective gloves complying with EN 374.  
Break through time : > 480 min  
Glove thickness : 0,4 mm  
Protective index : Class 6  
: peha-soft nitrile guard

In case of contact through splashing: Nitrile rubber

Material : Protective gloves complying with EN 374.  
Break through time : 8 min  
Glove thickness : 0,1 mm  
Protective index : Class 6  
: peha-soft nitrile fino

Skin and body protection : Lightweight protective clothing

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

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**

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : no data available

pH : 12 - 13, at 20 °C

Melting point/range : not determined

Boiling point/boiling range : not determined

Flash point : 37 °C  
Method: DIN 51755 Part 1

Evaporation rate : no data available

Flammability (solid, gas) : not auto-flammable

Burning rate : no data available

Lower explosion limit : no data available

Upper explosion limit	: no data available
Vapour pressure	: no data available
Relative vapor density	: no data available
Relative density	: no data available
Density	: 1,0 g/cm <sup>3</sup> at 20 °C
Water solubility	: completely miscible
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: 5 mPa.s at 20 °C
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available

**9.2 Other information**

Conductivity	: no data available
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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : None reasonably foreseeable.

**10.4 Conditions to avoid**

Conditions to avoid : Heat.  
Strong sunlight for prolonged periods.

**10.5 Incompatible materials**

Materials to avoid : Acids

**10.6 Hazardous decomposition products**

no data available

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Product**

Acute oral toxicity	:	LD50 Oral rat: 4.650 mg/kg
Acute inhalation toxicity	:	no data available
		Acute toxicity estimate : > 5 mg/l Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	no data available
Acute toxicity (other routes of administration)	:	no data available
Skin corrosion/irritation	:	Result: irritating Irritating to skin and mucous membranes
Serious eye damage/eye irritation	:	Result: irritating Risk of serious damage to eyes.
Respiratory or skin sensitization	:	Result: Does not cause skin sensitization.  Result: Does not cause respiratory sensitization.
Germ cell mutagenicity		
Genotoxicity in vitro	:	no data available
Genotoxicity in vivo	:	no data available
Carcinogenicity	:	This information is not available.
Reproductive toxicity	:	This information is not available.
Teratogenicity	:	This information is not available.
STOT - single exposure	:	Remarks: no data available
Repeated dose toxicity	:	Note: This information is not available.
STOT - repeated exposure	:	Remarks: no data available

**Components:****didecyldimethylammonium chloride (CAS: 7173-51-5) :**

Acute oral toxicity	:	LD50 Oral rat: 238 mg/kg Method: OECD Test Guideline 401
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- Acute dermal toxicity : LD50 Dermal rabbit: 3.342 mg/kg
- Skin corrosion/irritation : Species: rabbit  
Result: Corrosive after 3 minutes or less of exposure
- propan-2-ol (CAS: 67-63-0) :**
- Acute oral toxicity : LD50 Oral rat: > 2.000 mg/kg
- Acute inhalation toxicity : LC50 rat: > 20 mg/l  
Exposure time: 8 h
- Acute dermal toxicity : LD50 Dermal rabbit: > 2.000 mg/kg
- Skin corrosion/irritation : Species: rabbit  
Result: No skin irritation
- Serious eye damage/eye irritation : Species: rabbit  
Result: Eye irritation
- Respiratory or skin sensitization : Test Method: Buehler Test  
Species: guinea pig  
Result: Did not cause sensitization on laboratory animals.
- Germ cell mutagenicity
- Genotoxicity in vitro : Type: Ames test  
with or without metabolic activation  
Result: negative
- Alcohols, C12-14. ethoxylated (CAS: 68439-50-9) :**
- Acute oral toxicity : LD50 Oral rat: 1.500 mg/kg
- Skin corrosion/irritation : Result: Repeated exposure may cause skin dryness or cracking.
- Serious eye damage/eye irritation : Result: Irreversible effects on the eye
- tetrasodium ethylene diamine tetraacetate (CAS: 64-02-8) :**
- Acute inhalation toxicity : LC50 rat: > 1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist
- Skin corrosion/irritation : Species: rabbit  
Result: No skin irritation
- Serious eye damage/eye irritation : Species: rabbit  
Result: Irreversible effects on the eye

**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 6,8 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Toxicity to bacteria : no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : no data available

**Components:****didecyldimethylammonium chloride (CAS 7173-51-5) :**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,97 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,057 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,053 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor : 10  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,010 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

**propan-2-ol (CAS 67-63-0) :**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l  
Exposure time: 72 h

**Alcohols, C12-14. ethoxylated (CAS 68439-50-9) :**

Toxicity to fish : LC50 (Fish): > 1 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (*Scenedesmus capricornutum* (fresh water algae)): > 1 mg/l  
Exposure time: 72 h

**12.2 Persistence and degradability****Product:**

Biodegradability : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : no data available

**Components:**

**tetrasodium ethylene diamine tetraacetate (CAS 64-02-8) :**

Partition coefficient: n-octanol/water : log Pow: -13

**12.4 Mobility in soil****Product:**

Distribution among environmental compartments : no data available

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : no data available

**12.6 Other adverse effects****Product:**

Adsorbed organic bound halogens (AOX) : Product does not contain any organic halogens.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : Dispose of as hazardous waste in compliance with local and national regulations.  
The product should not be allowed to enter drains, water courses or the soil.  
The following Waste Codes are only suggestions:

Waste Code EU : 070601\* aqueous washing liquids and mother liquors

Contaminated packaging : Clean container with water.  
Empty remaining contents.  
Offer rinsed packaging material to local recycling facilities.

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**SECTION 14: Transport information****14.1 UN number**

**ADR** : UN 1993  
**IMDG** : UN 1993  
**IATA** : UN 1993

**14.2 UN proper shipping name**

**ADR** : FLAMMABLE LIQUID, N.O.S. (isopropanol, didecyldimethylammonium chloride)  
**IMDG** : FLAMMABLE LIQUID, N.O.S. (isopropanol, didecyldimethylammonium chloride)  
**IATA** : FLAMMABLE LIQUID, N.O.S. (isopropanol, didecyldimethylammonium chloride)

**14.3 Transport hazard class**

**ADR** : 3  
**IMDG** : 3  
**IATA** : 3

**14.4 Packaging group**

**ADR**  
Packaging group : III  
Classification Code : F1  
Hazard identification No : 30  
Labels : 3  
Tunnel restriction code : D/E  
**IMDG**  
Packaging group : III  
Labels : 3  
EmS Number : F-E, S-E  
**IATA**  
Packaging group : III  
Labels : 3

**14.5 Environmental hazards**

**ADR**  
Environmentally hazardous : yes  
**IMDG**  
Marine Pollutant : yes  
**IATA**  
Environmentally hazardous : no

**14.6 Special precautions for user**

not applicable

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

not applicable

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Notification status**

CH INV	:	The formulation contains substances listed on the Swiss Inventory
US.TSCA	:	Not On TSCA Inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
AICS	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory

For explanation of abbreviations see section 16.

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

R10	Flammable.
R11	Highly flammable.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

**Full text of other abbreviations**Notification status

CH INV	:	Switzerland. New notified substances and declared preparations
US.TSCA	:	Toxic substances control act
DSL	:	Canada. DSL - Domestic Substances List, part of CEPA
AICS	:	Australia. AICS - Australian Inventory of Chemical Substances
NZIoC	:	New Zealand Inventory of Chemical Substances
ENCS	:	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	:	Japan. Industrial Safety and Health Law - Inventory
KECI	:	Korea. KECI - Korean Existing Chemicals Inventory

PICCS : Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances  
IECSC : China. IECSC - Inventory of Existing Chemical Substances in China

**Safety datasheet sections which have been updated:**

- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 11. Toxicological information
- 12. Ecological information
- 15. Regulatory information

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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.