

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DESIFOR A

Revision date: 28.03.2018

Product code: 70098_CLP

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

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

Disinfectants
Reserved for industrial and professional use.

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	DR.SCHNELL GmbH & Co. KGaA	
Street:	Taunusstraße 19	
Place:	D-80807 München	
Telephone:	+49/89/350608-0	Telefax: +49/89/350608-47
e-mail:	info@dr-schnell.de	
Contact person:	Josef Feuerstein	Telephone: +49/89/350608-46
e-mail:	sdb@dr-schnell.de	
Internet:	www.dr-schnell.de	
Responsible Department:	Labor	

1.4. Emergency telephone number:

Emergency CONTACT (24-Hour-Number) international:
GBK GmbH +49 (0) 61 32 - 8 44 63

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Hazard Statements:
Causes serious eye damage.
Causes skin irritation.
Very toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

isotridecanol, ethoxylated
didecyldimethylammonium chloride

Signal word: Danger**Pictograms:****Hazard statements**

H318 Causes serious eye damage.
H315 Causes skin irritation.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to according to local / regional / national / international regulations of recycling.

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.
Observe pH value. High pH value can damage water.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
69011-36-5	isotridecanol, ethoxylated	5 - < 10 %
	931-138-8	
	Acute Tox. 4, Eye Dam. 1; H302 H318	
7173-51-5	didecyldimethylammonium chloride	1 - < 5 %
	230-525-2	
	612-131-00-6	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1; H302 H314 H400 H410	
67-63-0	propan-2-ol	1 - < 5 %
	200-661-7	
	603-117-00-0	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
497-19-8	sodium carbonate	1 - < 5 %
	207-838-8	
	011-005-00-2	
	Eye Irrit. 2; H319	

Full text of H and EUH statements: see section 16.

Further Information

Regulation (EC) No. 648/2004 (Detergents regulation)
> 5 % - < 15 % nonionic surfactants
perfumes: limonene
Disinfectants

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Move victim out of danger zone. Provide fresh air.
In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. In case of skin irritation, seek medical treatment. To be accompanied by MSDS.

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After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.
Remove contact lenses, if present and easy to do. Continue rinsing.
In all cases of doubt, or when symptoms persist, seek medical advice. To be accompanied by MSDS.

After ingestion

Do NOT induce vomiting.
Rinse mouth immediately and drink plenty of water.
Call a physician immediately. To be accompanied by MSDS.

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

If applicable, delayed symptoms and effects can be found in section 11. , i.e. under section 4.1 for absorption methods.
It can take hours before symptoms of poisoning show up following exposure.

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

No special measures are necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.
Water spray. / alcohol resistant foam. / Carbon dioxide (CO₂). / Dry extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Oxides of carbon
Nitrogen oxides (NO_x).
Hydrogen chloride (HCl).
Gas/vapours, toxic.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.
Alkali-resistant protective clothing (EN 13034)

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.
Avoid contact with eyes and skin.
If necessary Caution, slippery

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not allow to enter into surface water or drains.
Leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal .
Can be diluted with water
Flush residue with plenty of water.
Neutralisation possible by an expert.

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6.4. Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

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

In addition to the information contained in this section, relevant information can also be found in sections 8 and 6.1.

Further information on handling

Provide adequate ventilation.
 Avoid contact with eyes and skin.
 When using do not eat, drink or smoke.
 Observe instructions for use.
 Notice the directions for use on the label.
 Working methods should be applied according to operating instructions.
 General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and after work.
 Keep away from food, drink and animal feedingstuffs.
 Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in a place accessible by authorized persons only.
 Store product closed and only in original packing.
 Not to be stored in gangways or stair wells.
 Do not use materials not resistant to alkali.
 Suitable material for Container: Synthetic material

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation.
 This can be achieved by local exhaust ventilation or general ventilation.

Protective and hygiene measures

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and after work.
 Keep away from food, drink and animal feedingstuffs.
 Contaminated work clothing should not be allowed out of the workplace.

Eye/face protection

Tightly sealed safety glasses. (EN 166)

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Hand protection

Protective gloves made of natural latex (EN 374), Permeation time (penetration time) in minutes: 480
 Protective gloves of nitrile (EN 374), Permeation time (penetration time) in minutes: 480
 Recommendation: Manufacturer: KCL GmbH, D-36124 Eichenzell, E-mail: vertrieb@kcl.de
 Specification No.: 706 Lapren, 730 Camatril Velours
 Hand lotion are recommended.

No tests have been carried out.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	turquoise
Odour:	characteristic
pH-Value:	12,4

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	95 °C
Sustaining combustion:	Not sustaining combustion

Flammability

Solid:	not determined
Gas:	not determined

Explosive properties

not determined

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

Auto-ignition temperature

Solid:	not determined
Gas:	not determined

Oxidizing properties

not determined

Vapour pressure:	not determined
Vapour pressure:	not determined
Density:	1,019 g/cm ³
Bulk density:	not determined
Water solubility:	miscible.

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Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic:
(at 20 °C) 22 mPa·s

Viscosity / kinematic: not determined

Vapour density: not determined

Solvent content: not determined

9.2. Other information

Mixability: not determined

Fat solubility (g/l): not determined

Conductivity: not determined

Surface tension: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product has not been tested.

10.2. Chemical stability

Stable with proper storage and handling.

10.3. Possibility of hazardous reactions

No decomposition when used as directed.

10.4. Conditions to avoid

See also section 7.

No information available.

10.5. Incompatible materials

See also section 7.

Avoid contact with materials that are not alkali resistant.

Avoid contact with strong acids.

Contact with strong acids leads to strong reaction and heat production

10.6. Hazardous decomposition products

See also section 5.2.

No decomposition when used as directed.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

Possibly more information on health effects, see Section 2.1 (classification).

Acute toxicity

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

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
69011-36-5	isotridecanol, ethoxylated				
	oral	LD50 >300-2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
7173-51-5	didecyldimethylammonium chloride				
	oral	LD50 238 mg/kg	Rat		
	dermal	LD50 3342 mg/kg	Rabbit		
67-63-0	propan-2-ol				
	oral	LD50 5280 mg/kg	Rat		
	dermal	LD50 12800 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50 30 mg/l	Rat		
497-19-8	sodium carbonate				
	oral	LD50 4090 mg/kg	Rat	IUCLID	

Irritation and corrosivity

Causes serious eye damage.

Causes skin irritation.

Corrosion (skin): No (Method OECD 431)

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

See section 2.1 (rating) for potentially additional information concerning environmental effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
69011-36-5	isotridecanol, ethoxylated					
	Acute fish toxicity	LC50 mg/l	>1-10	96 h	Cyprinus carpio (Common Carp)	
	Acute algae toxicity	ErC50 mg/l	>1-10	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	>1-10	48 h	Daphnia magna	
7173-51-5	didecyldimethylammonium chloride					
	Acute fish toxicity	LC50 mg/l	0,19	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 mg/l	0,026	96 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	0,062	48 h	Daphnia magna	
67-63-0	propan-2-ol					
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 mg/l	>1000	72 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	13299	48 h	Daphnia magna	
497-19-8	sodium carbonate					
	Acute fish toxicity	LC50	300 mg/l	96 h	Lepomis macrochirus	
	Acute crustacea toxicity	EC50	265 mg/l	48 h	Daphnia magna	IUCLID

12.2. Persistence and degradability

The surfactant contained in this mixture complies 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

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

For example: designated incinerator

E.g. dispose at suitable refuse site.

Waste disposal number of waste from residues/unused products

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070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Dispose of waste according to applicable legislation.

Completely empty containers

Non-contaminated packages must be recycled or disposed of.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride)

14.3. Transport hazard class(es): 9

14.4. Packing group: III

Hazard label: 9

Classification code: M6

Special Provisions: 274 335 601

Limited quantity: 5 L

Transport category: 3

Hazard No: 90

Other applicable information (land transport)

Excepted Quantities: E1

Inland waterways transport (ADN)

14.1. UN number: UN3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride)

14.3. Transport hazard class(es): 9

14.4. Packing group: III

Hazard label: 9

Classification code: M6

Special Provisions: 274 335 601

Limited quantity: 5 L

Other applicable information (inland waterways transport)

Excepted Quantities: E1

Marine transport (IMDG)

14.1. UN number: UN3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride)

14.3. Transport hazard class(es): 9

14.4. Packing group: III

Hazard label: 9

Special Provisions: 274, 335

Limited quantity: 5 L

EmS: F-A, S-F

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Other applicable information (marine transport)

Excepted Quantities: E1

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Special Provisions:	A97 A158
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

Other applicable information (air transport)

Excepted Quantities: E1

Passenger-LQ: Y964

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

14.6. Special precautions for user

Persons responsible for the transport of dangerous goods must be trained.

Security provisions must be observed by all persons involved.

Precautions must be taken to avoid injury

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable, as freight is carried as general cargo, not in bulk.

Minimum quantity regulations are not observed here.

Other applicable information

Hazard number and packing code are available on request.

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

2004/42/EC (VOC): 2%

Additional information

For classification and labelling, see section 2.

The identity of every active substance and its concentration in metric units :

4,5 g / 100 g Didecyldimethylammoniumchlorid

Specific use(s): Disinfection

Registration number under the Biocide Notification Ordinance : No data available

BAuA registration number (Germany):: Reg.-Nr. N-12116

Number of Federal Approval (Switzerland): CHZB0538

Authorisation No. NL: 12211 N (in overeenstemming met de Wet Gewasbeschermingsmiddelen en Biociden)

Observe trade association/occupational health regulations.

Observe Chemical Ordinance, ChemO

Observe Chemical Risk Reduction Ordinance, ORRChem

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Observe Air Quality Control regulation

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - clearly water contaminating

SECTION 16: Other information**Changes**

Revised sections: 1, 9, 16

Additional information:

<5% in aqueous solution: The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Abbreviations and acronyms

vPvB = very persistent very bioaccumulative

PBT = persistent bioaccumulative toxic

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)