

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 1 of 10

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

Dentalrapid soft SD pur

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

Aldehyde-free surface disinfectant

1.3. Details of the supplier of the safety data sheet

Company name:	Müller-Omicron GmbH&Co. KG	
Street:	Schlosserstrasse 1	
Place:	D-51798 Lindlar	
Telephone:	+49 2266 4742 0	Telefax: +49 2266-4742-26
e-mail:	info@mueller-omicron.de	
Contact person:	qualified person	Telephone: +49 (0) 2266-4742-0
e-mail:	sds@mueller-omicron.de	
Internet:	www.mueller-omicron.de	

1.4. Emergency telephone number: Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

Further Information

This data sheet replaces the previous sheet.
The sections affected are listed in heading 16.

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

Hazard categories:
Skin corrosion/irritation: Skin Corr. 1B
Serious eye damage/eye irritation: Eye Dam. 1
Hazard Statements:
Causes severe skin burns and eye damage.
Harmful to aquatic life.

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

didecyldimethylammonium chloride
C12-14-Alkyl[(ethylphenyl)methyl]dimethyl-Chlorid

Signal word: Danger

Pictograms:**Hazard statements**

H314 Causes severe skin burns and eye damage.
H402 Harmful to aquatic life.

Precautionary statements

P273 Avoid release to the environment.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 2 of 10

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Additional advice on labelling

Classification according to Regulation (EC) No 1272/2008 [CLP]

2.3. Other hazards

hazardous to water (WGK 2)

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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]			
7173-51-5	didecyldimethylammonium chloride			1 - < 5 %
	230-525-2	612-131-00-6		
	Acute Tox. 4, Skin Corr. 1B; H302 H314			
85409-23-0	C12-14-Alkyl[(ethylphenyl)methyl]dimethyl-Chlorid			1 - < 5 %
	287-090-7			
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1; H302 H314 H400			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			1 - < 5 %
	200-661-7		01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			1 - < 5 %
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			

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

Further Information

Note: The danger characteristics and R-Phrases refer to the properties of the neat substances.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of inhaling spray mist, consult a physician.

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Do not wash off with acidic cleaning agents.

In case of skin irritation, consult a physician.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 3 of 10

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect).
Seek medical attention if problems persist.

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

No information available.

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

Symptomatic treatment and supporting therapy is recommended.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂).Carbon monoxide

5.3. Advice for firefighters

Use appropriate respiratory protection. In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Contaminated fire-fighting water must be collected separately.

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

Personal precautions See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to drain into groundwater i / surface water. Upon penetration into waters or drains inform competent authority.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Suitable material for taking up:

Universal binding agent.

Treat the recovered material as prescribed in the section on waste disposal.

Wash with plenty of water.

6.4. Reference to other sections

Information regarding safe handling, see section. 7

Information regarding personal protective equipment, see section. 8

Information for disposal see section. 13

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

Avoid contact with skin and eyes. Do not eat, drink, or smoke at work.

Advice on protection against fire and explosion

No special actions required.

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

Keep container tightly closed in a cool, well-ventilated place.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 4 of 10

Protect against:
UV-radiation/sunlight.
frost.
Unsuitable materials for Container: metal.

Advice on storage compatibility

Do not store together with:
Reducing agents.
Zinc.
iron.
amines.
Aluminium.
Acid.

Further information on storage conditions

Keep only in the original container.
Recommended storage temperature: 5-30°C
Storage class:

7.3. Specific end use(s)

No special handling instructions are necessary.

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

Refer to chapter 7. Additional information about structure of technical plants: Avoid leakages in dosage systems

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Wear suitable gloves.
penetration time (maximum wearing period): 8 h
Suitable material:
NR (Natural rubber (Caoutchouc), Natural latex). 0,5 mm
CR (polychloroprenes, Chloroprene rubber). 0,5 mm
NBR (Nitrile rubber). 0,35 mm
FKM (fluororubber). 0,4 mm
PVC (Polyvinyl chloride). 0,5 mm
Before using check leak tightness / impermeability.

Skin protection

Protective apron.

Respiratory protection

When aerosols / vapors respiratory protection.

Environmental exposure controls

Pay attention to water protection (gathering, embank), do not empty into drains or the aquatic environment.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 5 of 10

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

Physical state:	liquid
Colour:	green
Odour:	lemon

Test method

pH-Value (at 20 °C):	ca. 7,5
----------------------	---------

Changes in the physical state

Melting point:	not applicable
Initial boiling point and boiling range:	99,97 °C
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Flash point:	not applicable
Sustaining combustion:	Not sustaining combustion

Flammability

Solid:	not applicable
Gas:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable

Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable
Vapour pressure: (at 20 °C)	23,37 hPa
Vapour pressure: (at 50 °C)	123,3 hPa
Density (at 20 °C):	0,994 g/cm ³
Water solubility:	complete
Viscosity / dynamic:	low

9.2. Other information

Solid content:	not applicable
----------------	----------------

SECTION 10: Stability and reactivity
10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Do not mix with acids.

10.4. Conditions to avoid

Frost Protect from sunlight.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 6 of 10

Materials to avoid Acid, concentrated

10.5. Incompatible materials

Iron. Alloy, containing copper

10.6. Hazardous decomposition products

Contact with acids liberates toxic gas.

Further information

Keep cool. Protect from sunlight. Exothermic reactions with: Acid.

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

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

Acute toxicity

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

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
7173-51-5	didecyldimethylammonium chloride			
	oral	ATE 500 mg/kg		
85409-23-0	C12-14-Alkyl[(ethylphenyl)methyl]dimethyl-Chlorid			
	oral	ATE 500 mg/kg		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
	oral	LD50 5045 mg/kg	rat	
	dermal	LD50 12800 mg/kg	rabbit	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
	oral	LD50 5045 mg/kg	rat	
	dermal	LD50 12800 mg/kg	rabbit	

Irritation and corrosivity

Causes severe skin burns and eye damage.

-

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.
not known

Aspiration hazard

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

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 7 of 10

Practical experience

Observations relevant to classification

There are no data available on the preparation/mixture itself.

Other observations

There are no data available on the preparation/mixture itself.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

The surfactants contained in the product are biodegradable according to the requirements of the Detergent Directive 648/2004/EC.

12.3. Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05

12.4. Mobility in soil

There are no data available on the preparation/mixture itself.
Für einzelne Rohstoffe:

Mobility in soil für didecyldimethylammonium chloride
Moderate adsorption in soil and sediment. für C12-14-Alkyl[(ethylphenyl)methyl]dimethyl-Chlorid

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

Environmental properties
hazardous to water (WGK 2)

Further information

Must not allow undiluted product or large quantities into ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

The product must be disposed of in compliance with local regulations.

Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 8 of 10

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Classification code: C9
 Special Provisions: 274
 Limited quantity: 5 L
 Transport category: 3
 Hazard No: 80
 Tunnel restriction code: E

Other applicable information (land transport)

Inland waterways transport (ADN)

14.1. UN number: UN 1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Classification code: C9
 Special Provisions: 274
 Limited quantity: 5 L

Other applicable information (inland waterways transport)

Marine transport (IMDG)

14.1. UN number: UN 1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Special Provisions: 223, 274
 Limited quantity: 5 L
 EmS: F-A, S-B

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 9 of 10

Other applicable information (marine transport)**Air transport (ICAO)**

14.1. UN number: UN 1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Special Provisions: A3 A803
Limited quantity Passenger: 1 L
IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E1
: Y841

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: didecyldimethylammonium chloride
C12-14-Alkyl[(ethylphenyl)methyl]dimethyl-Chlorid

14.6. Special precautions for user

No special handling instructions are necessary.

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

Not classified for this transport way.

Other applicable information

No information available.

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): 3,434 % (34,134 g/l)

National regulatory information

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dentalrapid soft SD pur

Print date: 29.06.2016

Page 10 of 10

of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
P: Marine Pollutant
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.

Further Information

Notice the directions for use on the label. The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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.)