


EU Safety Data Sheet
in accordance with Regulation (EC) 1907/2006

1 Identification of the substance/mixture and company/undertaking

Trade name/product group	Omnizid			
Use of substance/mixture	Ready to use cleaner and disinfectant for surface disinfection			
Manufacturer:	OMNIDENT Dental- Handelsgesellschaft m.b.H. Gutenbergring 7-9 D - 63110 Rodgau, Germany	Tel.:	+49 (6106) 8 74 - 0	
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2 Potential hazards

Hazards identification:	
	GHS 02
Special human health and environmental hazards:	Warning Classification in accordance with Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures H226 Flammable liquid and vapour, category 3 Classification in accordance with Directive 67/548/EEC F, R10 Flammable

3 Composition/information on ingredients

General information:	Disinfectant, alkylamine derivative-based, quaternary compound			
<u>Hazardous components</u>				
Chemical characterisation:				
Components	*REACH-RegNo. CAS No.	Code (Directive 67/548/EEC) Code (EC 1272/2008)	R phrase H phrase	Concentration
Ethanol	01-2119457610-43-XXXX 64-17-5 200-578-6	F Flam. Liq. 2	11 H225	30 - 50 %
Propan-1-ol	01-2119486761-29-XXXX 71-23-8 200-746-9	F, Xi Flam. Liq. 2; Eye Dam. 1 STOT SE 3	11-41-67 H225 ; H318 H336	< 10.0%
Didecyldimethylammonium chloride	- 7173-51-5 230-525-2	F, C, N Acute Tox. 3; Skin Corr. 1B; Aquatic Acute 1	10-22-34-50-67 H301 ; H314 H400	< 0.5%
*Additional instructions: For detailed Information about the warning signs see chapter 16.				

4 First aid measures

General:	Take off immediately all contaminated clothing. If you feel unwell seek medical advice.
If inhaled:	Remove victim to fresh air; if patient feels unwell, get medical attention. If unconscious, position and transport the patient securely on their side. Use artificial ventilation if necessary. Keep patient warm.
If on skin:	If on skin, wash with water and soap and lubricate if required. If skin irritation persists, get medical attention.
If in eyes:	Take off immediately all contaminated clothing. Rinse open eyes carefully with water for at least 15 minutes. Remove contact lenses if present

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If swallowed:	and easy to do. Continue rinsing. Rinse eyes even if victim feels no pain after contact with eyes. Seek medical advice immediately and have product container or label at hand. Do NOT induce vomiting. Give victim water or other liquids to drink. Do not give victims fruit juices to drink as this can cause burning in the oesophagus. If necessary, neutralise substances with activated carbon or another adsorbent
Notes for doctor:	Give victim plenty of water to drink. If necessary, have a doctor perform gastric lavage. Treat victim for alcohol intoxication.

5 Fire-fighting measures

Suitable extinguishing media:	Powder extinguisher or water spray, carbon dioxide (CO ₂), major fires with alcohol-resistant foam
Unsuitable extinguishing media:	Full water jet
Specific hazards due to product:	flammable, vapours are heavier than air, potentially explosive mixtures with air possible even at slightly elevated temperature.
Protective equipment for fire fighters:	Self-contained breathing apparatus must be worn in hazard area. Avoid contact with skin by wearing suitable protective clothing and keeping a safe distance.
Additional instructions:	Closed vessels may experience an increase in pressure up to bursting if temperature rises. Cool containers at risk by spraying with a jet of water. Suppress leaking vapours with water. Residual material from fires and contaminated firefighting water must be disposed as required by the authorities.

6 Accidental release measures

Personal precautions:	Do not inhale vapours/aerosoles. Avoid contact with eyes and skin. Ensure fresh air in enclosed spaces. Keep away all ignition sources.
Environmental precautions:	Do not release undiluted into water courses/surface water/ground water. Notify competent authorities in the event of contamination of water or water courses.
Clean-up/collection procedures:	Collect larger spills with adsorbent material (sand, diatomaceous earth, acid binders, universal binders or sawdust). Dispose of material collected as required in the regulations. Ensure adequate ventilation.
Notes:	Eliminate ignition sources, do not smoke, avoid open flames.
*Additional instructions:	Information about „safety handling“ see chapter 7 Information about „personal protection“ see chapter 8 Information about „dangerous reactions“ see chapter 10 Information about „disposal considerations“ see chapter 13

7. Handling and storage

7.1 Handling:	
Information for safe handling:	Avoid contact with eyes or skin. Do not inhale aerosoles. Wear protective gloves/eye protection/face protection when working. Use only in well ventilated areas. Forced air extraction may be necessary in poorly ventilated spaces.
Instructions for fire and explosion safety:	* Vapours are heavier than air. Do not smoke. Keep ignition sources away. Do not spray into open flame. Can form explosive gas-air mixtures at room temperature. Do not use near electrical equipment which are switched on and are not ex-protected. Protect against electrostatic charges.
Additional instructions:	

7.2 Storage:	Do not store together with medicines, foods or animal feed. Keep out of the reach of children
Requirements for storage areas and containers:	Packaging material: Plastic
Instructions for combined storage and non-permitted storage combinations:	do not store together with foods, animal feed or medicines
Other information regarding storage conditions:	Storage temperature: 0 - 25 °C Shelf life: max. 3 years

Storage class *TRGS 510:	Avoid direct sunlight 3A flammable liquid
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8 Exposure controls/personal protection

8.1 Additional instructions regarding engineering measures:

8.2 Ingredients with occupational exposure limits:	Maximum workplace concentration (AGW), Germany: AGW (TRGS 900 [Technical Rules for Hazardous Substances]) (Germany)	960 mg/m ³ , 500 ml/m ³ 960 mg/m ³ , 500 ml/m ³ Y (DFG), for which there are no concerns of foetal damage if compliance is ensured with the workplace limit (AGW) and the biological limit (BGW).
Additional instructions:		

8.3 Personal protective equipment	<p>General protective and hygiene measures: The standard protective measures for the handling of chemicals must be followed. The product must not be sprayed towards your own or anyone else's face. 43.0 g ethanol, 8.0 g 1-propanol, 0.04 g didecyldimethylammonium chloride Application max. 50 ml per m³. The total application volume per room must not exceed 10 ml per m² of floor area with a room height of 2.5 m. This means that for a room height of 2.5 m, only a maximum of one third of the floor area can be treated with 30 ml/m² or only 10 percent of the floor area can be treated with 100 ml/m². When spraying on a smooth surface, approximately 8 g/m² is used, while when spraying on an adsorbent surface, up to 36 g/m². The spray cone has a visible length of 0.30 m and a maximum diameter of 0.20 m; face and skin must be kept outside the spray cone.</p> <p>If sprayed onto a small, adsorbent surface measuring 0.485 m x 0.62 m = 0.3 m², in order to wet the area completely, 11 sprays will be required, ensuring that only half of the spray stream touches the area. 10 sprays can be applied ensuring that the spray stream comes into full contact with the area. This means that approximately one third of the product remains in the air as a mist. It is therefore recommended that areas only be sprayed in such a manner as to ensure that the spray stream comes into full contact with the surface and that the edges not wetted in this case be disinfected by subsequently wiping with a cloth. Following this procedure will ensure that disinfection of the area will result in an anticipated concentration of quats of 12 mg/m³ in a layer of air of 0.30 m above the surface. Given a layer of air of 0.6 m above the surface, the anticipated quat content is below 6 mg/m³ and is thus below the maximum workplace concentration [*AGW]. If a standard procedure for the application of sprayed disinfectants is followed, it is not anticipated that *AGW for quats will be exceeded. The corresponding anticipated values for ethanol are approximately 48 mg/m³ for the 30 centimetre layer and 24 mg/m² for a layer of 0.6 m above the surface. The TRGS 900 values for ethanol are also not exceeded. The corresponding anticipated values for 1-propanol are approximately 24 mg/m³ for the 30 centimetre layer and 12 mg/m² for a layer of 0.6 m above the surface. The TRGS 900 values for 1-propanol are also not exceeded. If 100 ml/m² is applied to 10 percent of the floor area, the *AGW for ethanol may be exceeded briefly. However, values will be within the peak level. Ethanol is listed in pregnancy group C. No foetal damage is anticipated if limits are not exceeded.</p> <p>Use respiratory protection if ventilation is inadequate; type A or AX half-mask</p> <p>Protective gloves (EN 374) The glove material must be impermeable and resistant to the product/substance/preparation. Due to a lack of testing, no recommendation can be made regarding the glove material for the product/preparation/chemical mixture. When selecting the glove material, take penetration times, permeation rates and degradation into consideration Glove material: Latex gloves A penetration time for the glove material of > 5 minutes is adequate for use. For prolonged contact, gloves made from the following material are suitable: butyl rubber, 0.4 mm wall thickness. For splatter protection, gloves made from the following material are suitable: latex and rubber</p> <p>Wear safety goggles or face protection (e.g. EN 166)</p>
Respiratory protection:	
Hand protection:	
Eye protection:	

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Body protection:	Use liquid-resistant protective clothing, protective gloves and goggles/ face protection
Protective and hygiene measures:	do not eat, drink or smoke during work; wash hands and, if necessary, face after work.

9 Physical and chemical properties

9.1 Appearance:

Form (aggregate state):	liquid
Colour:	colourless
Odour:	scented

9.2 Safety-relevant data: tested in accordance with:

pH level in delivered state:	[pH]	* < 10
pH at [g/l H ₂ O] and 20°C:	[pH]	
Change of state		
Boiling point/range:	[°C]	78 °C DIN 51 751
Flash point:	[°C]	27 °C DIN 51 755
Combustibility (solid/gaseous)		*Product is not selfigniting.
Ignition point:	[°C]	425
Explosion hazard:		The product does not pose an explosion hazard; formation of a potentially explosive air/gas mixture is possible
Oxidising properties:		Not determined
Vapour pressure:	[h Pa]	Not determined
Specific gravity:	[g/cm ³]	0.91 g/cm ³
Solubility (including in solvents):		Fully miscible
Solubility in water	[mg/l]	*Fully miscible
n-octanol/water partition coefficient:		Not determined
Viscosity:		Not determined
Vapour pressure with reference substance:		Not determined
[%]		
Evaporation rate:	[%]	Not determined

9.3 Further information:

10 Stability and reactivity

Conditions to avoid:	Does not decompose when properly stored and handled. Heating promotes transition from liquid to vapour phase and the formation of potentially explosive atmospheres.
Materials to avoid:	*No dangerous reactions if used according to specifications.
Hazardous decomposition products:	Carbon dioxide and nitrous oxides
Further information:	

11 Toxicological information

11.1 General:

Toxicological testing:	
Acute toxicity:	not applicable

11.2 Toxicokinetics, metabolism and distribution:

Acute effects (irritant/burning):	Repeated contact with the skin may result in a loss of skin moisture and resultant skin damage. Based on the calculation procedure from the latest valid version of the EU general classification directive for preparations, the product exhibits the following hazards: flammable. on the skin: irritates the skin and mucous membranes. on the eyes: irritant, may cause irreversible damage.
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Sensitisation:	may cause sensitisation if in contact with the skin.
Repeated-dose toxicity:	Not determined
CMR effects (carcinogenicity, mutagenicity or reproductive toxicity):	Not determined
(subacute or chronic toxicity):	Not determined
Other information:	
Experience from practice:	
Observations of relevance to classification:	
Other observations:	Given the standard precautions for handling chemicals, the product is safe to handle

11.3 General comments:

12 Ecological information

12.1 Information regarding elimination:

Evaluation: Ethanol is degraded slowly by oxidation in air. In an aqueous solution at concentrations below 20 % v/v, ethanol exhibits good biodegradability. Introducing the diluted product into public water courses is not expected to impair treatment plant operation. Official regulations for discharge of the product must be followed in all cases.

Water hazard class: 1 (self classification)

Additional information:

Behaviour in environmental compartments:

The product is detoxified when diluted in standard domestic wastewater before it reaches the treatment plant.

Mobility and bioaccumulation potential:

Other information: According to OECD confirmatory, didecyldimethylammonium chloride is biodegradable.

12.2 Ecotoxic effects:

Aquatic toxicity:

Behaviour in wastewater treatment plants:

Respiration inhibition in communal activated sludge:

12.3 Other information:

CSB⁶ value: [mg·O₂/g] Not determined

BSB₅-Wert: [mg·O₂/g] Not determined

AOX information:

According to the formula, contains the following heavy metals and compounds (in accordance with Directive 76/464/EEC): none

General:

13 Disposal considerations

13.1 Preparation:

Recommendation: Disposal - incinerate in accordance with official regulations.

Waste code (EAK#)

*07 06 99

Name of waste

Wastes from manufacturing, preparation, processing and use of fats, lubricants, soaps, washing agents, disinfectants and personal care agents

Obligation to provide proof

13.2 Uncleaned packages:

Waste code 15 01 10 (packages containing residues of hazardous substances or contaminated by hazardous substances)

Recommendations:

Empty residue and dispose. Only recycle after cleaning thoroughly.

Cleaning agent:

Water

14 Transport information


14.1 Land transport, ADR/RID and GGVSE (cross-border/domestic):	
UN number:	1987
ADR/RID class:	3
GGVSE class:	3
Goods description:	ALCOHOLS, NOS (ETHANOL(ETHYLALCOHOL) 1-PROPANOL)
Packaging group (PG):	III
*Tunnel restriction code:	(E)
Comments/special requirements	*274, 601

14.3 Marine transport, IMDG/GGVSee	
UN number:	1987
IMDG/GGVSee:	3
Correct technical name:	ALCOHOLS, N.O.S. (ETHANOL(ETHYLALCOHOL) 1-PROPANOL)
EmS No.:	F-E, S-D
Class:	3
Packaging group (PG):	III
marine pollutant:	No
Comments/special requirements	

14.4 Air transport, ICAO-TI and IATA-DGR	
UN number:	1987
ICAO/IATA number:	3
Correct technical name:	ALCOHOLS, N.O.S. (ETHANOL(ETHYLALCOHOL) 1-PROPANOL)
Packaging group (PG):	III
Comments/special requirements	

14.5 Further information:

15 Regulatory information

15.1 Labeling	
	
Symbols and indications of danger:	
Warning	
Contains:	43.0 g ethanol, 8.0 g 1-propanol, 0.04 g didecyldimethylammonium chloride
H phrases:	Hazard information H226 Flammable liquid and vapour
P phrases:	Precautionary information P102 Keep out of the reach of children P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P235 Keep cool. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing and wash before wearing again. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue to rinse. P337 + P313 If eye irritation persists: Get medical advice/attention. P403 Store in a well-ventilated place. P501 Only recycle packages if completely emptied of residues. Dispose of residual contents under waste code number 07 06 99.
Special labelling for specific preparations:	

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15.2 National regulations

Occupational restrictions:

Hazardous Incidents Ordinance: The product does not fall within the scope of the Hazardous Incidents Ordinance

Technical Instructions on Air Quality Control

Water hazard class: 1 (self classification)

European Waste Catalogue (EWC) No.:

Designation No.:

Other regulations, restrictions

and prohibitions: For pregnant women and youths

16 Other information

*Hazard information referring chapter 2 and 3:

Classified in accordance with directive (EC) No. 1272/2008 concerning

H225 Highly flammable liquid and vapour. category 3

H301 Toxic if swallowed., Acute toxicity, category 3, (oral)

H314 Causes severe skin burns and eye damage, category 1B

H318 Causes serious eye damage, categorie 1

H336 May cause drowsiness or dizzines, categorie 3, STOT SE 3

H400 Very toxic to aquatic life, categorie 1

According to Directive 67/548/EEC

F R 10 Flammable liquid

R 11 Highly flammable

Xi R 41 Causes severe skin burns and eye damage,

R 67 Vapor may cause drowsiness or dizzines.

C, N R 22 Harmful if swallowed.

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

The information is based on current knowledge and experience. The information in the safety data sheet does not constitute a guarantee regarding properties.

Key: N/A = not applicable
n.b. = not known