

according to Regulation (EC) No 1907/2006

# 981 Desinfektion Pollenfilter Umgebung 12981010AV

Print date: 05.01.2018

Product code: 12981010AV

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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

# 1.3. Details of the supplier of the safety data sheet

Company name:	TUNAP Deutschland Vertriebs GmbH & Co. Betriebs KG				
Street:	Bürgermeister-Seidl-Str. 2	Bürgermeister-Seidl-Str. 2			
Place:	D-82515 Wolfratshausen				
Telephone:	+49 (0) 8171/1600 - 0	Telefax:+49 (0) 8171/1600 - 40			
e-mail:	sdb@tunap.com				
Internet:	www.tunap.com				
1.4. Emergency telephone	+49 (0) 30 30 686 790 (Giftnotruf Berlin)				
and the second sec					

number:

SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 2 Serious eye damage/eye irritation: Eye Dam. 1 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Flammable aerosol. Pressurised container: May burst if heated. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

Danger

# 2.2. Label elements

#### Regulation (EC) No. 1272/2008

### Hazard components for labelling

n-propanol

Signal word:

Pictograms:



#### **Hazard statements**

H223	Flammable aerosol.
H229	Pressurised container: May burst if heated.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P211	Do not spray on an open flame or other ignition source.
P260	Do not breathe Aerosol.



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P280	Wear eye/face protection.				
P273	Avoid release to the environment.				
P314	Get medical advice/attention if you feel unwell.				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.				
P251	Do not pierce or burn, even after use.				

Special labelling of certain mixtures

Read attached instructions before use.

#### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

# Chemical characterization Alcohol

# Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regula	tion (EC) No. 1272/2008 [	CLP]	
64-17-5	ethanol			10 - < 20 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H31	9	•	
71-23-8	n-propanol			5 - < 10 %
	200-746-9	603-003-00-0	01-2119486761-29	
	Flam. Liq. 2, Eye Dam. 1, STOT S	E 3; H225 H318 H336		
124-38-9	carbon dioxide			1 - < 3 %
	204-696-9			
85409-23-0	Quaternary ammonium compound	0.1 - < 1 %		
	287-090-7			
	Acute Tox. 4, Skin Corr. 1B, Aquat	ic Acute 1, Aquatic Chroni	c 1; H302 H314 H400 H410	
68424-85-1	Quaternary ammonium compound	0.1 - < 1 %		
	270-325-2			
	Acute Tox. 4, Skin Corr. 1B, Aquat H302 H314 H400 H410	ic Acute 1 (M-Factor = 10)	, Aquatic Chronic 1 (M-Factor = 1);	
7173-51-5	didecyldimethylammonium chloride	e		0.1 - < 1 %
	230-525-2			
	Acute Tox. 3, Skin Corr. 1B, Eye D H301 H314 H318 H400 H411	am. 1, Aquatic Acute 1 (M	-Factor = 10), Aquatic Chronic 2;	

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

# **Further Information**

Regulation (EC) No. 648/2004 (Detergents regulation) Contains: less than 5 % cationic surfactants, Disinfectants

# **SECTION 4: First aid measures**



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#### 4.1. Description of first aid measures

#### **General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

#### Unsuitable extinguishing media

High power water jet

#### 5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

#### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

# 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

#### 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). Clean



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contaminated articles and floor according to the environmental legislation.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

#### Further information on handling

Avoid contact with skin and eyes.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

# Advice on storage compatibility

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

#### Further information on storage conditions

Protect from frost. Protect against direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

# 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/m³	fibres/ml	Category	Origin
124-38-9	Carbon dioxide	5000	9150		TWA (8 h)	WEL
	-	15000	27400		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
71-23-8	Propan-1-ol	200	500		TWA (8 h)	WEL
		250	625		STEL (15 min)	WEL

#### Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long term exposure: after several previous shifts



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d before next shift

blood (B) Urine (U)

# 8.2. Exposure controls

## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

# Protective and hygiene measures

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

#### Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min Thickness of the glove material 0,45 mm DIN EN 374

# Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

# **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. When exceeding the relevant workplace exposure limits, note the following: Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Filtering device with filter or ventilator filtering device of type: A Observe the wear time limits as specified by the manufacturer. Observe legal regulations and provisions.

# Environmental exposure controls

Observe legal regulations and provisions.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	Aerosol colourless Alcohol	
		Test method
pH-Value (at 20 °C):	7,7	DIN 19268
Changes in the physical state		
Melting point:	not determined	
Initial boiling point and boiling range:	78 °C	
Flash point:	33 °C	
Flammability		
Solid:	not applicable	
Gas:	not applicable	
Lower explosion limits:	2,1 vol. %	



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Upper explosion limits:	15 vol. %					
Ignition temperature:	371 °C					
Auto-ignition temperature Solid: Gas: Decomposition temperature:	not applicable not applicable not determined					
Oxidizing properties Not oxidising.						
Vapour pressure:	not determined					
Vapour pressure:	No information available.					
Density (at 20 °C): Bulk density:	0,95 g/cm³ not applicable	DIN 51757				
Water solubility:	easily soluble					
Solubility in other solvents not determined						
Partition coefficient:	not determined					
Viscosity / dynamic:	No information available.					
Viscosity / kinematic:	No information available.					
Flow time:	not applicable					
Vapour density:	not determined					
Evaporation rate:	not determined					
9.2. Other information						
Solid content:	not determined					

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

Flammable, Ignition hazard.

# 10.2. Chemical stability

The product is stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

# 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

# 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

# 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

# Further information

Do not mix with other chemicals.



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# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

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

CAS No	Chemical name						
	Exposure route	Dose		Species	Source		
64-17-5	ethanol						
	oral	LD50	6200 mg/kg	Rat	IUCLID		
	dermal	LD50	>20000 mg/kg	Rat			
	inhalative (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS		
71-23-8	n-propanol						
	oral	LD50	8000 mg/kg	Rat			
	dermal	LD50	4032 mg/kg	Rabbit			
	inhalative (4 h) vapour	LC50	> 33,8 mg/l	Rat			
85409-23-0	9-23-0 Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides						
	oral	LD50	778 mg/kg	Rat			
68424-85-1	Quaternary ammonium compounds,	benzyl-C12	-16-alkyldimethyl,	chlorides			
	oral	LD50	344 mg/kg	Rat			
	dermal	LD50	3340 mg/kg	Rabbit			
7173-51-5	didecyldimethylammonium chloride	-		-			
	oral	LD50	238 mg/kg	Rat			
	dermal	LD50	3342 mg/kg	Rabbit			

#### Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

# 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. No indication of human carcinogenicity. No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

# 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.

#### Specific effects in experiment on an animal

No information available.



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# Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source		
64-17-5	ethanol							
	Acute fish toxicity	LC50	14200 mg/l	96 h	Pimephales promelas (fathead minnow)			
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48 h	Daphnia magna	IUCLID		
71-23-8	n-propanol							
	Acute fish toxicity	LC50	4480 mg/l	96 h	Pimephales promelas			
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides							
	Acute fish toxicity	LC50	0,28 mg/l	96 h	Pimephales promelas			
	Acute algae toxicity	ErC50	0,049 mg/l	72 h	Pseudokirchneriella subcapitata			
	Acute crustacea toxicity	EC50	0,016 mg/l	48 h	Daphnia magna			
7173-51-5	didecyldimethylammonium c	hloride						
	Acute fish toxicity	LC50	0,19 mg/l	96 h	Pimephales promelas			
	Acute algae toxicity	ErC50	0,026 mg/l		Pseudokirchneriella subcapitata			
	Acute crustacea toxicity	EC50	0,062 mg/l	48 h	Daphnia magna			

# 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

The product has not been tested.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol	-0,31
71-23-8	n-propanol	0,29

## 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

# **Further information**

Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.



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#### Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

### Waste disposal number of used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

## Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

# Contaminated packaging

Completely emptied packages can be recycled.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2, see SP63
Marine pollutant:	no
Special Provisions:	63, 190, 277, 327, 344, 9
Limited quantity:	See SP277
Excepted quantity:	E0

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EmS:	F-D, S-U		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number:</u>	UN 1950		
14.2. UN proper shipping name:	AEROSOLS, flammable		
14.3. Transport hazard class(es):	2.1		
14.4. Packing group:	-		
Hazard label:	2.1		
Special Provisions:	A145 A167 A802		
Limited quantity Passenger:	30 kg G		
Passenger LQ: Excepted quantity:	Y203 E0		
IATA-packing instructions - Passenger:	203		
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	203 75 kg		
IATA-packing instructions - Cargo:	203		
IATA-max. quantity - Cargo:	150 kg		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	no		
<b>14.6. Special precautions for user</b> Warning: Flammable gases.			
14.7. Transport in bulk according to Annex	x II of Marpol and the IBC Code		
not applicable			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture		
EU regulatory information			
2010/75/EU (VOC):	No information available.		
2004/42/EC (VOC):	No information available.		
Additional information			
To follow: 850/2004/EC , 79/117/EEC	C. 689/2008/EC. 2008/47/EC		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile		
Employment restrictions.	work protection guideline' (94/33/EC).		
Water contaminating class (D):	1 - slightly water contaminating		
15.2. Chemical safety assessment			
	ostances in this mixture were not carried out.		
SECTION 16: Other information			
Changes This data sheet contains changes fro Abbreviations and acronyms	om the previous version in section(s): 1,2,3,4,5,6,7,8,10,14.		

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances



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CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%		
Relevant H and EUH statements (number and full text)		

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.)