

ROCLAR

Adexano

Material safety data sheet

according to EC-directive 1907/2006 (REACH)
version: 2.1

Product name:
Dexan hand disinfectant

Date of issue: 17.03.2009

adapted 12.07.2011

Print date: 22.01.2013

01. Substance/preparation and company identification

Product name

Dexan hand disinfectant

Use:

hand disinfectant

Company

Ropimex R.Opel GmbH Geschäftsbereich Hygiene-Systeme Adexano

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Bildstocker Straße 12

Zip Code/town

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02. Hazards Identification

According to 1272/2008/EC, appendix VII;

R 11: Highly flammable.

F

Classification according to 67/548/EWG or guideline 1999/45/EC

03. Composition/Information on ingredients

Chemical characterisation

< 5% cationic Tenside, include disinfectant

other ingredients: care component, water soluble solvent

100 g solution includes:

50,0 g ethanol, 10,0 g isopropanol, 0,2 g Benzalkoniumchloride

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Hazardous ingredients

Chemical substance	CAS-Nr.	EG-Nr./ EINECS/ELIN CS	content (%)	Classification/declaration		remark
				Symbol	R-phrase	
Ethanol	64-17-5	200-578-8	40 - 60%	F	11	MAK (average day value): Germany: 960 mg/m ³
Isopropanol	67-63-0	200-661-7	7,5 – 12,5%	Xi, F	11-36-67	
Benzalkoniumchloride	68424-85-1	270-325-2	0,1 - 1%	C, N	21/22-34-50	

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

04. First-aid measures

If inhaled:

Remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.

On skin contact:

Wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

On contact with eyes:

Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

On ingestion:

Immediately rinse mouth and then drink plenty of water. Do not induce vomiting. Seek immediate medical attention.

Note to physician:

Gastric lavage using a cuffed endotracheal tube may be performed at medicines decision.

05. Fire-fighting measures

Suitable extinguishing media:

Suitable extinguishing media: Carbon dioxide, drying fire extinguishing agent or suitable foam.

Special protection equipment during the fire fighting:

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Respirator and protective clothing carry.

06. Accidental release measures

Technical preventive measures:

Remove ignition sources. Provide a good aeration.

Protection of individual's measures:

Carry eye protector, protection gloves and protection smocks. Carry respiratory protection during bad aeration.

Environmental protection measures:

Keep away from drains, waters and soil.

Procedure for the cleaning:

Take up mechanically or with liquid-binding material and in closed container of the disposal supply. Suitable bonding agents: Sand (to damming), wood flour or universal binder.

07. Handling and storage

Handling:

Avoid contact with skin and eyes.

Do not mix with other products. Keep away from ignition sources - do not smoke. Keep containers closely closed.

Storage:

storage stability: store above 0°C; keep away from temperatures over 40°C. Keep containers closely closed

08. Exposure controls/personal protection

Threshold limit values:

- ethanol with TLV-value (Spitzenbegr. Kat.: 4): 1,900 mg/m³, and/or. 1,000 ml/m³
- Isopropanol (TRGS 900): 500 mg/m³

Technical preventive measures:

Work only in well ventilated areas, accomplish under flow or exhaust. Plan emergency shower and eye bath.

Industrial hygiene:

Avoid contact with the eyes and the skin. Do not inhale steams. Do not carry dirty clothes. Wash hands and face after the work. Pay attention to preventing skin protection before and after the work.

Respiratory protection:

Pay attention to personal respiratory protection during the occurrence of steams or aerosols in larger quantity (design-proved suitable protective mask with P3-Partikel-Filter and/or A2/P3 - combination filters).

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Hand protection:

Chemical resistant protective gloves (EN 374)
Suitable materials short-term contact and/or splashes (recommended: at least protective index 2, corresponding < 30 minutes of permeation time according to EN 374)
Butyl rubber (butyl): 0,7 mm coating thickness
Nitrile rubber (NBR): 0,4 mm coating thickness

Eye protection:

Tightly fitting safety goggles (cage goggles) according to EN 166:2001

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

09. Physical and chemical properties

Appearance:

form: liquid
color: colourless
odour: alcoholic

Sicherheitsrelevante Daten:

danger of explosion: the product is not potentially explosive,

Parameter	value	Unit	Methode	remark
lower explosion limit	not determined			
upper explosion limit				
density	0,88 – 0,90	g/ml	gravimetric	
viscosity	40 – 44	s	(according DIN 53211; DIN-)	cup 2 mm
miscibility with water	miscible in all proportions			
pH-value (mixture STS cid a701: water 1:1)	4,5			
boiling point/range	not determined			
flash point	20	°C		
ignition temperature	not determined			

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10. Stability and reactivity

Incompatible materials and conditions:

Incompatible with strong oxidizing agents

Dangerous decomposition products: not known

Dangerous reactions: -

11. Toxicological Information

According mathematical method (1999/45/EC)

Toxicological control:

No data available (formulation)

Acute Toxicity:

Ethanol

Acute toxicity	value	species	method	remark
LD50 (oral)	6.200 mg/kg	rat	IUCLID	
LD50 (dermal)	20.000 mg/kg	rabbit	IUCLID	
LC50 (inhal.)	20.000 mg/l	rat		

Specific symptoms in animal tests (ethanol):

Eyes irritation test (rabbit): slight irritation

Skin irritation test (rabbit): slight irritation

Benzalkoniumchloride

Acute toxicity	value	species	method	remark
LD50 (oral)	600 mg/kg	Ratte	IUCLID	
LD50 (dermal)	1.560 mg/kg	Ratte	IUCLID	

Irritation:

Benzalkoniumchloride

primary skin irritation: corrosive

primary mucous membrane irritation: strong corrosive

Gentoxicity:

Benzalkoniumchloride

Evaluation Mutagenicity: the chemical indicate at bacteria no mutagenic effect

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Subacute to chronic toxicity

Sensitisation:

Sensitisation test (Magnusson and Klingman): negative (ethanol)

Bacterial mutagenicity: Salmonella typhimurium: negative (ethanol)

Further toxicological information (ethanol)

Properties that must be anticipated on the basis of ingredients of the preparation:

After inhalation of vapours: slight mucosal irritation. Danger of absorption. Possible drowsiness.

After skin contact: After long-term exposure: dermatitis. Danger of skin absorption.

After eye contact: slight irritation.

After swallowing of large amounts: nausea and vomiting.

Systemic effects: euphoria.

After Resorption of large amounts: headache, dizziness, elation, narcosis, respiratory paralysis.

Practical experience:

Inhalation: No expositis by inhalation by indented use

Skin contact: corrosive on skin and mucous membranes.

Eye contact: corrosive (danger of blindness)

Swallow: corrosive inside of the mouth and danger for perforation of gullet and stomach

12. Ecological information

Ecotoxicity

No data available (formulation).

Biodegradation:

Readily biodegradable.

Biodegradation: 94 % (Ethanol) modified OECD Screening Test

Ecotoxicity of ingredients:

Benzalkoniumchloride:

LC50 (96h): < 1 mg/l (Oncorhynchus mykiss)

LC50 (48h): < 1 mg/l (Daphnia magna)

LC50 (72h): < 1 mg/l (Slenastrum capricornutum (green alga))

EC10: 1-10 mg/l, activated sludge

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Mobility

No data available (formulation)

Bioaccumulation:

No data available (formulation).

PBT-property

No data available (formulation).

Other deleterious effect

No data available (formulation)

13. Disposal considerations

EAK/AVV- Waste code according to the hazardous waste list directive

07 06 04

Package

Contaminated package

15 01 10

Cleaned package

15 01 02

14. Transport Information

Road and rail GGVSEB, ADR, RID

Class: 3 (F1), flammable liquids

Hazard identification No.: 33

UN-Nr: 1987

Packing group: II

Label: 3

Name : UN 1987 Alcohols, n.o.s. (ETHANOL, ISOPROPANOL)

Tunnelcode: (D/E)

LQ: Netto inside package 1 l; gross premium total 30 kg

Sea IMDG, GGVSee

IMDG-GGVSee class: 3

UN-Number: 1987

Ems: F-E, S-D

Flashpoint: 20°C

Labell: 3

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Marine Pollutant: No
Severe marine Pollutant: No
Technical name: Alcohols, n.o.s. (ETHANOL, ISOPROPANOL)
Tunnelcode: (D/E)
LQ: Netto inside package 1 l; gross premium total 30 kg

Air transport, PAX

UN 1987, Alcohols, n.o.s. (ETHANOL, ISOPROPANOL)
ADR/RID-class: 3
Packing group: II
Max. netto per package = 5.00 L

Air transport, CAO

UN 1987, Alcohols, n.o.s. (ETHANOL, ISOPROPANOL)
IATA-class: 3,
Packing group: II,
max. netto per package = 60.00 L

15. Regulatory information

Regulations of the European Union (Labelling) [67/548/EWG und 1999/45/EG]/national legislation/regulations



Highly flammable

Labelling according to 1272/2008/ec

Not been preformed (cause: formulation)

R-phrases:

11 Highly flammable

S-phrases:

2 Keep out of the reach of children.
7 Keep container tightly closed.
13 Keep away from food, drink and animal feedingstuffs.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46 If swallowed, seek medical advice immediately and show this container or label.

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National legislation water hazard class:

WGK 1 (according to VwVwS from 17.05.1999, app. 2): light water pollutant

16. Other information

Full text of R-phrase if mentioned as hazardous components in chapter 2 and 3

- R 11: Highly flammable
- R 21/22: Harmful in contact with skin and if swallowed.
- R 34: Causes burns.
- R 36: Irritating to eyes.
- R 50: Very toxic to aquatic organisms.
- R 67: Vapours may cause drowsiness and dizziness.

Other information

-

Data sheet responsible person

Dr. Dirk Kreisler (Dipl.-Chem.), phone: +49 6825 / 800 890

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