



# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 23.08.2019

Print date: 06.11.20

residues, refer to safety data sheet.

## 2.3. Other hazards

No special hazards have to be mentioned. The product contains no PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients

##### fatty alcohols, ethoxylated, propoxylated

CAS No.	68439-51-0			
Concentration	>= 10	<	25	%
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 3		H412	

##### citric acid

CAS No.	77-92-9			
EINECS no.	201-069-1			
Registration no.	01-2119457026-42			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319	

##### sodium cumenesulfonate

CAS No.	15763-76-5			
EINECS no.	239-854-6			
Registration no.	01-2119489411-37			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319	

#### Other information

Complete text of hazard statements in chapter 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated, soaked clothing immediately and dispose of safely.

#### After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

#### After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

#### After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. In case of irritation consult an oculist.

#### After ingestion

Rinse mouth thoroughly with water.

#### Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 23.08.2019

Print date: 06.11.20

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

### Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

#### Non suitable extinguishing media

Full water jet

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

In case of combustion evolution of dangerous gases possible.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

#### Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### 6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of aerosols. Observe the usual precautions for handling chemicals. Keep container tightly closed.

#### Advice on protection against fire and explosion

The product is not combustible.

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

#### Recommended storage temperature

Value > 0 < 30 °C

#### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 23.08.2019

Print date: 06.11.20

## Storage classes

Storage class according to TRGS 510      12      Non-combustible liquids

## 7.3. Specific end use(s)

no data

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other information

There are not known any further control parameters.

### 8.2. Exposure controls

#### General protective and hygiene measures

Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work.

#### Respiratory protection

Not necessary, but do not inhale vapours. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

#### Hand protection

Chemical resistant gloves

Use	Permanent hand contact
Appropriate Material	neoprene
Material thickness	>= 0,65 mm
Breakthrough time	> 480 min
Appropriate Material	nitrile
Material thickness	>= 0,4 mm
Breakthrough time	> 480 min
Appropriate Material	butyl
Material thickness	>= 0,7 mm
Breakthrough time	> 480 min
Use	Short-term hand contact
Appropriate Material	nitrile
Material thickness	>= 0,11 mm

Hand protection must comply with EN 374.

#### Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

#### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Odour threshold</b>	
Remarks	not determined
<b>pH value</b>	
Value	appr. 2
Temperature	20 °C

# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 23.08.2019

Print date: 06.11.20

## Melting point

Remarks not determined

## Freezing point

Remarks not determined

## Initial boiling point and boiling range

Remarks not determined

## Flash point

Remarks Not applicable

## Evaporation rate (ether = 1) :

Remarks not determined

## Flammability (solid, gas)

evaluation not determined

## Upper/lower flammability or explosive limits

Remarks Not applicable

## Vapour pressure

Remarks not determined

## Vapour density

Remarks not determined

## Density

Value 1,05 g/cm<sup>3</sup>  
Temperature 20 °C

## Solubility in water

Remarks miscible in all proportions

## Solubility(ies)

Remarks not determined

## Partition coefficient: n-octanol/water

Remarks not determined

## Ignition temperature

Remarks Not applicable

## Decomposition temperature

Remarks not determined

## Viscosity

### dynamic

Value < 50 mPa.s  
Temperature 20 °C

## Explosive properties

evaluation no

## Oxidising properties

evaluation None known

## 9.2. Other information

### Other information

None known

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 23.08.2019

Print date: 06.11.20

No hazardous reactions when stored and handled according to prescribed instructions.

## 10.2. Chemical stability

No hazardous reactions known.

## 10.3. Possibility of hazardous reactions

No hazardous reactions known.

## 10.4. Conditions to avoid

No hazardous reactions known.

## 10.5. Incompatible materials

None known

## 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

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

#### Acute oral toxicity (Components)

##### fatty alcohols, ethoxylated, propoxylated

Species	rat	
LD50	> 2000	mg/kg
Method	EEC 84/449, B.1	

##### sodium cumenesulfonate

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 401	

##### citric acid

Species	rat	
LD50	11700	mg/kg

##### citric acid

Species	mouse	
LD50	5040	mg/kg

#### Acute dermal toxicity

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

#### Acute dermal toxicity (Components)

##### fatty alcohols, ethoxylated, propoxylated

Species	rat	
LD50	> 5000	mg/kg

#### Acute inhalational toxicity

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

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

evaluation irritant

#### Sensitization

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

#### Subacute, subchronic, chronic toxicity

# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 23.08.2019

Print date: 06.11.20

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

## Mutagenicity

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

## Reproductive toxicity

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

## Carcinogenicity

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

## Specific Target Organ Toxicity (STOT)

### Single exposure

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

### Repeated exposure

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

## Aspiration hazard

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

## Experience in practice

Inhalation may lead to irritation of the respiratory tract.

## Other information

There is no data available on the product apart from the information given in this subsection.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

not determined

#### Fish toxicity (Components)

##### fatty alcohols, ethoxylated, propoxylated

Species	guppy ( <i>Poecilia reticulata</i> )			
LC50	1	to	10	mg/l
Duration of exposure	96	h		
Method	OECD 203			

##### citric acid

Species	golden orfe ( <i>Leuciscus idus</i> )			
LC50	440	to	706	mg/l
Duration of exposure	96	h		

#### Daphnia toxicity (Components)

##### fatty alcohols, ethoxylated, propoxylated

Species	Daphnia magna			
EC50	1	to	10	mg/l
Duration of exposure	48	h		
Method	OECD 202			

##### citric acid

Species	Daphnia magna			
EC50	120			mg/l
Duration of exposure	72	h		

#### Algae toxicity (Components)

##### fatty alcohols, ethoxylated, propoxylated

Species	Scenedesmus subspicatus			
EC50	1	to	10	mg/l
Duration of exposure	72	h		

# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 23.08.2019

Print date: 06.11.20

Method OECD 201

## Bacteria toxicity (Components)

**fatty alcohols, ethoxylated, propoxylated**

Species Pseudomonas putida

EC0 > 100

mg/l

Method OECD 209

## 12.2. Persistence and degradability

### General information

not determined

### Biodegradability (Components)

**fatty alcohols, ethoxylated, propoxylated**

evaluation Readily biodegradable (according to OECD criteria)

### Ready degradability (Components)

citric acid

## 12.3. Bioaccumulative potential

### General information

not determined

### Partition coefficient: n-octanol/water

Remarks not determined

## 12.4. Mobility in soil

### General information

not determined

## 12.5. Results of PBT and vPvB assessment

### Evaluation of persistence and bioaccumulation potential

The product contains no PBT or vPvB substances.

## 12.6. Other adverse effects

### General information

not determined

### General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14: Transport information



# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 23.08.2019

Print date: 06.11.20

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	Non-dangerous goods	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

## Information for all modes of transport

### 14.6. Special precautions for user

See Sections 6 to 8

### Other information

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Ingredients (Regulation (EC) No 648/2004)

##### 15 % or over but less than 30 %:

non-ionic surfactants

##### less than 5 %:

phosphonates

#### Further ingredients

preservation agents: Mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

#### Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

#### VOC

VOC (EU) 0 %

#### Other information

The product does not contain substances of very high concern (SVHC).

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3  
Eye Irrit. 2 Eye irritation, Category 2

### Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association

# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 /  
GB

Date revised: 23.08.2019

Print date: 06.11.20

ICAO: International Civil Aviation Organization

IBC: Intermediate Bulk Container

CAS: Chemical Abstracts Service

VOC: Volatile Organic Compound

LD: Lethal dose

LC: Lethal concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified  
by the Protocol of 1978 (MARPOL: Marine Pollution)

ISO: International Organization for Standardization

OECD: Organisation for Economic Co-operation and Development

IMO: International Maritime Organization

UN: United Nations

EU: European Union

## Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a  
guarantee for any specific product properties and shall not establish a legally valid relationship.