



# neodisher MediKlar special

Version: 2 / GB

Replaces Version: 1 / GB

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P337+P313

If eye irritation persists: Get medical advice/attention.

Dispose only when container is empty and closed. For disposal of product residues, refer to safety data sheet.

## 2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients

##### fatty alcohols, ethoxylated, propoxylated

|  |                   |   |      |   |  |
|--|-------------------|---|------|---|--|
| CAS No.  | 68439-51-0        |   |      |   |  |
| Concentration                                  | $\geq 10$         | < | 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                                  | $\geq 1$         | < | 10   | % |  |
| Classification (Regulation (EC) No. 1272/2008) | Eye Irrit. 2     |   | H319 |   |  |
|  | STOT SE 3        |   | H335 |   |  |

##### sodium cumenesulfonate

|  |                  |   |      |   |  |
|--|------------------|---|------|---|--|
| CAS No.  | 15763-76-5       |   |      |   |  |
| EINECS no.                                     | 239-854-6        |   |      |   |  |
| Registration no.                               | 01-2119489411-37 |   |      |   |  |
| Concentration                                  | $\geq 1$         | < | 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

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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.

## 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

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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.

### 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  $\geq$  0,65 mm

Breakthrough time  $>$  480 min

Appropriate Material nitrile

Material thickness  $\geq$  0,4 mm

Breakthrough time  $>$  480 min

Appropriate Material butyl

Material thickness  $\geq$  0,7 mm

Breakthrough time  $>$  480 min

Use Short-term hand contact

Appropriate Material nitrile

Material thickness  $\geq$  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

Physical state liquid

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|   |                             |
|---|-----------------------------|
| <b>Colour</b>   | colourless                  |
| <b>Odour</b>  | characteristic              |
| <b>Melting point</b>  |                             |
| Remarks   | not determined              |
| <b>Freezing point</b>   |                             |
| Remarks   | not determined              |
| <b>Boiling point or initial boiling point and boiling range</b> |                             |
| Remarks   | not determined              |
| <b>Flammability</b>   |                             |
| evaluation  | not determined              |
| <b>Upper and lower explosive limits</b>                         |                             |
| Remarks   | Not applicable              |
| <b>Flash point</b>  |                             |
| Remarks   | Not applicable              |
| <b>Ignition temperature</b>                                     |                             |
| Remarks   | Not applicable              |
| <b>Decomposition temperature</b>                                |                             |
| Remarks   |                             |
| Remarks   | not determined              |
| <b>pH value</b>   |                             |
| Value   | appr. 2                     |
| Temperature   | 20 °C                       |
| <b>Viscosity</b>  |                             |
| <b>dynamic</b>  |                             |
| Value   | < 50 mPa.s                  |
| Temperature   | 20 °C                       |
| <b>Solubility(ies)</b>  |                             |
| Remarks   | not determined              |
| <b>Partition coefficient n-octanol/water (log value)</b>        |                             |
| Remarks   | not determined              |
| <b>Vapour pressure</b>  |                             |
| Remarks   | not determined              |
| <b>Density and/or relative density</b>                          |                             |
| Value   | 1,05 g/cm <sup>3</sup>      |
| Temperature   | 20 °C                       |
| <b>Relative vapour density</b>                                  |                             |
| Remarks   | not determined              |
| <b>9.2. Other information</b>                                   |                             |
| <b>Odour threshold</b>  |                             |
| Remarks   | not determined              |
| <b>Evaporation rate (ether = 1) :</b>                           |                             |
| Remarks   | not determined              |
| <b>Solubility in water</b>                                      |                             |
| Remarks   | miscible in all proportions |
| <b>Explosive properties</b>                                     |                             |

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evaluation no

## Oxidising properties

evaluation None known

## Other information

None known

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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 hazard classes as defined in Regulation (EC) No 1272/2008

#### 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

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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

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.

## 11.2 Information on other hazards

### Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

### 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)

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## **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  |    |      |  |
| 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 (log value)**

Remarks not determined

## **12.4. Mobility in soil**

### **General information**

not determined

## **12.5. Results of PBT and vPvB assessment**

### **Results of PBT and vPvB assessment**

The product contains no PBT or vPvB substances.

## **12.6 Endocrine disrupting properties**

### **Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## **12.7. Other adverse effects**

### **General information**



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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

EWC waste code 18 01 06\* chemicals consisting of or containing dangerous substances  
EWC waste code 20 01 29\* detergents containing dangerous substances  
The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

EWC waste code 15 01 02 plastic packaging  
Completely emptied packagings can be given for recycling.  
EWC waste code 15 01 10\* packaging containing residues of or contaminated by dangerous substances

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

## SECTION 14: Transport information

|                              | Land transport ADR/RID   | Marine transport IMDG/GGVSee  | Air transport ICAO/IATA   |
|------------------------------|--|---|---|
| 14.1. UN number or ID number | The product does not constitute a hazardous substance in land transport. | 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 Maritime transport in bulk according to IMO instruments

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: reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

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## 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

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)  
Eye Irrit. 2 H319

### Hazard statements listed in Chapter 2/3

H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 2/3

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3  
Eye Irrit. 2 Eye irritation, Category 2  
STOT SE 3 Specific target organ toxicity - single exposure, Category 3

### 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  
ICAO: International Civil Aviation Organization  
IATA: International Air Transport Association  
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.