

# neodisher MultiZym

Version: 6 / GB

Replaces Version: 5 / GB

Date revised: 09.07.2021

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

neodisher MultiZym

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Identified Uses

PC35                      Washing and cleaning products (including solvent based products)

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

#### Address:

Chemische Fabrik Dr. Weigert GmbH & Co. KG  
Mühlenhagen 85  
D-20539 Hamburg  
Telephone no.            +49 40 789 60 0  
Fax no.                    +49 40 789 60 120  
www.drweigert.com

#### E-mail address of person responsible for this SDS:

sida@drweigert.de

### 1.4. Emergency telephone number

Emergency telephone number: 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)  
Skin Sens. 1                      H317

For explanation of abbreviations see section 16.

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H317                      May cause an allergic skin reaction.

#### Precautionary statements

P280.3                      Wear protective gloves and protective clothing.  
P302+P352                IF ON SKIN: Wash with plenty of soap and water.  
P333+P313                If skin irritation or rash occurs: Get medical advice/attention.  
Dispose only when container is empty and closed. For disposal of product

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residues, refer to safety data sheet.

## Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains 2-methylisothiazol-3(2H)-one; subtilisin

### 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

##### isotridecanol, ethoxylated

|  |              |   |      |                         |
|--|--------------|---|------|-------------------------|
| CAS No.  | 69011-36-5   |   |      |                         |
| Concentration                                  | >= 5         | < | 15   | %                       |
| Classification (Regulation (EC) No. 1272/2008) |              |   |      |                         |
|  | Acute Tox. 4 |   | H302 | Route of exposure: oral |
|  | Eye Dam. 1   |   | H318 |                         |

##### sodium alkylsulfonate

|  |                   |   |      |                         |
|--|-------------------|---|------|-------------------------|
| CAS No.  | 97489-15-1        |   |      |                         |
| EINECS no.                                     | 307-055-2         |   |      |                         |
| Registration no.                               | 01-2119489924-20  |   |      |                         |
| Concentration                                  | >= 1              | < | 5    | %                       |
| Classification (Regulation (EC) No. 1272/2008) |                   |   |      |                         |
|  | Eye Dam. 1        |   | H318 |                         |
|  | Skin Irrit. 2     |   | H315 |                         |
|  | Acute Tox. 4      |   | H302 | Route of exposure: oral |
|  | Aquatic Chronic 3 |   | H412 |                         |

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

|  |              |      |              |
|--|--------------|------|--------------|
|  | Acute Tox. 4 | H302 | > 60 %       |
|  | Eye Dam. 1   | H318 | > 15 %       |
|  | Eye Irrit. 2 | H319 | > 10 <= 15 % |

##### 2-methylisothiazol-3(2H)-one

|  |                   |   |      |                               |
|--|-------------------|---|------|-------------------------------|
| CAS No.  | 2682-20-4         |   |      |                               |
| EINECS no.                                     | 220-239-6         |   |      |                               |
| Concentration                                  | >= 0,0015         | < | 0,01 | %                             |
| Classification (Regulation (EC) No. 1272/2008) |                   |   |      |                               |
|  | Acute Tox. 3      |   | H301 | Route of exposure: oral       |
|  | Acute Tox. 3      |   | H311 | Route of exposure: dermal     |
|  | Acute Tox. 2      |   | H330 | Route of exposure: inhalative |
|  | Skin Corr. 1B     |   | H314 |                               |
|  | Skin Sens. 1A     |   | H317 |                               |
|  | STOT SE 3         |   | H335 |                               |
|  | Aquatic Acute 1   |   | H400 |                               |
|  | Aquatic Chronic 1 |   | H410 |                               |
|  | Eye Dam. 1        |   | H318 |                               |

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

|  |                 |      |             |
|--|-----------------|------|-------------|
|  | Skin Sens. 1A   | H317 | >= 0,0015 % |
|  | Aquatic Acute 1 |      | M = 10      |

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## subtilisin

|  |                  |      |   |                         |
|--|------------------|------|---|-------------------------|
| CAS No.  | 9014-01-1        |      |   |                         |
| EINECS no.                                     | 232-752-2        |      |   |                         |
| Registration no.                               | 01-2119480434-38 |      |   |                         |
| Concentration                                  | >= 0,1           | < 1  | % |                         |
| Classification (Regulation (EC) No. 1272/2008) |                  |      |   |                         |
| Acute Tox. 4                                   |                  | H302 |   | Route of exposure: oral |
| Skin Irrit. 2                                  |                  | H315 |   |                         |
| Eye Dam. 1                                     |                  | H318 |   |                         |
| Resp. Sens. 1                                  |                  | H334 |   |                         |
| STOT SE 3                                      |                  | H335 |   |                         |
| Aquatic Acute 1                                |                  | H400 |   |                         |
| Aquatic Chronic 2                              |                  | H411 |   |                         |

## Other information

Complete text of hazard statements in chapter 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of persistent symptoms consult doctor.

#### After inhalation

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

#### After skin contact

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

#### After ingestion

Rinse out mouth and give plenty of water to drink.

#### 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.

### 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

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In case of combustion use a suitable breathing apparatus.

## SECTION 6: Accidental release measures

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

Avoid contact with skin, eyes and clothing.

### 6.2. Environmental precautions

Do not discharge into surface waters/groundwater.

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

Pick up with absorbent material. Clean contaminated floors and objects thoroughly, observing environmental regulations. Dispose of as prescribed.

### 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 protection against fire and explosion

No special measures required.

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

#### Recommended storage temperature

Value > 0 < 25 °C

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Hints on storage assembly

Do not store together with foodstuffs.

#### Storage classes

Storage class according to TRGS 510 12 Non-combustible liquids

#### Further information on storage conditions

Protect from heat and direct sunlight. Keep container tightly closed and dry.

### 7.3. Specific end use(s)

no data

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### Glycerol

|       |      |                   |
|-------|------|-------------------|
| List  | EH40 |                   |
| Type  | WEL  |                   |
| Value | 10   | mg/m <sup>3</sup> |

##### subtilisin

|                           |         |                   |
|---------------------------|---------|-------------------|
| List                      | EH40    |                   |
| Type                      | WEL     |                   |
| Value                     | 0.00004 | mg/m <sup>3</sup> |
| Short term exposure limit |         | mg/m <sup>3</sup> |

Remarks: Sen

#### Other information

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There are not known any further control parameters.

## 8.2. Exposure controls

### General protective and hygiene measures

Observe the usual precautions for handling chemicals.

### 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  
neoprene

Appropriate Material  
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

Not necessary.

## SECTION 9: Physical and chemical properties

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

**Physical state** liquid, transparent to opaque

**Colour** yellow

**Odour** characteristic

#### Melting point

Remarks not determined

#### Freezing point

Remarks not determined

#### Boiling point or initial boiling point and boiling range

Remarks not determined

#### Flammability

evaluation not determined

#### Upper and lower explosive limits

Remarks Not applicable

#### Flash point

Remarks Not applicable

#### Ignition temperature

Remarks Not applicable

#### Decomposition temperature

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Remarks

Remarks

not determined

## pH value

Value

8,5

to

9,0

## Viscosity

### dynamic

Value

<

50

mPa.s

Temperature

20

°C

## Solubility(ies)

Remarks

not determined

## Partition coefficient n-octanol/water (log value)

Remarks

not determined

## Vapour pressure

Remarks

not determined

## Density and/or relative density

Value

1,06

g/cm<sup>3</sup>

Temperature

20

°C

## Relative vapour density

Remarks

not determined

## 9.2. Other information

### Odour threshold

Remarks

not determined

### Evaporation rate (ether = 1) :

Remarks

not determined

### Solubility in water

Remarks

miscible in all proportions

### Explosive properties

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

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## 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

|         |   |
|---------|---|
| Species | rat   |
| LD50    | > 2000 mg/kg  |
| Method  | calculated value (Regulation (EC) No. 1272/2008)                  |
| Remarks | Based on available data, the classification criteria are not met. |

#### Acute oral toxicity (Components)

##### isotridecanol, ethoxylated

|         |                   |
|---------|-------------------|
| Species | rat               |
| LD50    | 300 to 2000 mg/kg |

#### Acute dermal toxicity

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

#### 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 | slight irritant effect - does not require labelling |
| Source     | OECD 438  |

#### 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)

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.

#### Other information

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

## SECTION 12: Ecological information

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## 12.1. Toxicity

### General information

not determined

### Fish toxicity (Components)

#### sodium alkylsulfonate

|                      |   |    |    |      |
|----------------------|---|----|----|------|
| Species              | zebra fish ( <i>Brachydanio rerio</i> ) |    |    |      |
| LC50                 | 1                                       | to | 10 | mg/l |
| Duration of exposure | 96                                      | h  |    |      |

#### isotridecanol, ethoxylated

|                      |                                 |    |    |      |
|----------------------|---------------------------------|----|----|------|
| Species              | carp ( <i>Cyprinus carpio</i> ) |    |    |      |
| LC50                 | 1                               | to | 10 | mg/l |
| Duration of exposure | 96                              | h  |    |      |
| Method               | OECD 203                        |    |    |      |

### Daphnia toxicity (Components)

#### sodium alkylsulfonate

|                      |               |   |  |      |
|----------------------|---------------|---|--|------|
| Species              | Daphnia magna |   |  |      |
| EC50                 | 9,81          |   |  | mg/l |
| Duration of exposure | 48            | h |  |      |

#### isotridecanol, ethoxylated

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

### Algae toxicity (Components)

#### sodium alkylsulfonate

|                      |                         |   |  |      |
|----------------------|-------------------------|---|--|------|
| Species              | Scenedesmus subspicatus |   |  |      |
| EC50                 | > 61                    |   |  | mg/l |
| Duration of exposure | 72                      | h |  |      |

#### isotridecanol, ethoxylated

|                      |                         |    |    |      |
|----------------------|-------------------------|----|----|------|
| Species              | Scenedesmus subspicatus |    |    |      |
| EC50                 | 1                       | to | 10 | mg/l |
| Duration of exposure | 72                      | h  |    |      |
| Method               | OECD 201                |    |    |      |

### Bacteria toxicity (Components)

#### isotridecanol, ethoxylated

|         |                  |  |  |      |
|---------|------------------|--|--|------|
| Species | activated sludge |  |  |      |
| EC50    | 140              |  |  | mg/l |

## 12.2. Persistence and degradability

### General information

not determined

### Biodegradability

Remarks The organic content of the product is biodegradable.

### Biodegradability (Components)

#### isotridecanol, ethoxylated

evaluation Readily biodegradable (according to OECD criteria)

#### sodium alkylsulfonate

evaluation Readily biodegradable (according to OECD criteria)

### Chemical oxygen demand (COD) (Components)



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## sodium alkylsulfonate

Value 1510 mg/g

### 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

not determined

#### General information / ecology

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

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|                                     | Land transport ADR/RID   | Marine transport IMDG/GGVSee  | Air transport ICAO/IATA   |
|-------------------------------------|--|---|---|
| <b>14.1. UN number or ID number</b> | 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)

##### 5 % or over but less than 15 %:

non-ionic surfactants

##### less than 5 %:

anionic surfactants

#### Further ingredients

enzymes, preservation agents: octhilinone (ISO), 2-methylisothiazol-3(2H)-one

## 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)  
Skin Sens. 1 H317

### Hazard statements listed in Chapter 2/3

|      |  |
|------|--|
| H301 | Toxic if swallowed.  |
| H302 | Harmful if swallowed.  |
| H311 | Toxic in contact with skin.  |
| H314 | Causes severe skin burns and eye damage.                                   |
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.                                       |
| H318 | Causes serious eye damage.   |
| H330 | Fatal if inhaled.  |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation.  |

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|      |   |
|------|---|
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |
| H412 | Harmful to aquatic life with long lasting effects.    |

## CLP categories listed in Chapter 2/3

|                   |  |
|-------------------|--|
| Acute Tox. 2      | Acute toxicity, Category 2                                   |
| Acute Tox. 3      | Acute toxicity, Category 3                                   |
| Acute Tox. 4      | Acute toxicity, Category 4                                   |
| Aquatic Acute 1   | Hazardous to the aquatic environment, acute, Category 1      |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1    |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2    |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3    |
| Eye Dam. 1        | Serious eye damage, Category 1                               |
| Resp. Sens. 1     | Respiratory sensitization, Category 1                        |
| Skin Corr. 1B     | Skin corrosion, Category 1B                                  |
| Skin Irrit. 2     | Skin irritation, Category 2                                  |
| Skin Sens. 1      | Skin sensitization, Category 1                               |
| Skin Sens. 1A     | Skin sensitization, Category 1A                              |
| 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  
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  
UN: United Nations  
CAS: Chemical Abstracts Service  
OECD: Organisation for Economic Co-operation and Development  
GHS: Globally Harmonized System of classification and Labelling of Chemicals  
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals  
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)  
IBC: Intermediate Bulk Container  
ASTM: American Society for Testing And Materials  
TSCA: Toxic Substances Control Act (USA)  
WHO: World Health Organization  
IMO: International Maritime Organization  
IUCLID: International Uniform Chemical Information Database

## 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.