

\* Oldozym AP

Date revised: 06.10.2023

# 8770026211

Version: 10 / GB

Master No. MA-211

Print date: 17.04.2024

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

### **1.1. Product identifier**

**Trade name**

Oldozym AP

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

**Use of the substance/mixture**

Detergents

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

**Address/Manufacturer**

BÜFA Cleaning GmbH &amp; Co. KG

August-Hanken-Str. 30

26125 Oldenburg

Telephone no. +49 441 9317 0

Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

### **1.4. Emergency telephone number**

Poison Information Center Goettingen: +49 551 19240

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

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

Eye Irrit. 2 H319

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

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**

H319 Causes serious eye irritation.

**Precautionary statements**

P280.9 Wear eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Sensitising substances**EUH208 Contains amylase,  $\alpha$ -, subtilisin, 1,2-benzisothiazol-3(2H)-one, May produce an allergic reaction.

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### 2.3. Other hazards

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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 \*\*\*

##### 2-(2-butoxyethoxy)ethanol

|                  |                       |   |    |  |   |
|------------------|-----------------------|---|----|--|---|
| CAS No.          | 112-34-5              |   |    |  |   |
| EINECS no.       | 203-961-6             |   |    |  |   |
| Registration no. | 01-2119475104-44-XXXX |   |    |  |   |
| Concentration    | >= 10                 | < | 25 |  | % |
| Eye Irrit. 2     | H319                  |   |    |  |   |

##### Isotridecanol, ethoxylated

|                  |                      |   |   |  |   |
|------------------|----------------------|---|---|--|---|
| CAS No.          | 69011-36-5           |   |   |  |   |
| EINECS no.       | 931-138-8            |   |   |  |   |
| Registration no. | IRRELEVANT (POLYMER) |   |   |  |   |
| Concentration    | >= 1                 | < | 3 |  | % |
| Acute Tox. 4     | H302                 |   |   |  |   |
| Eye Dam. 1       | H318                 |   |   |  |   |

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

|     |              |        |            |
|-----|--------------|--------|------------|
|     | Eye Irrit. 2 | H319   | > 1 < 10 % |
|     | Eye Dam. 1   | H318   | >= 10 %    |
| ATE | oral         | 555,56 | mg/kg      |

##### subtilisin

|                   |                       |   |   |  |   |
|-------------------|-----------------------|---|---|--|---|
| CAS No.           | 9014-01-1             |   |   |  |   |
| EINECS no.        | 232-752-2             |   |   |  |   |
| Registration no.  | 01-2119480434-38-XXXX |   |   |  |   |
| Concentration     | >= 0,1                | < | 1 |  | % |
| Acute Tox. 4      | H302                  |   |   |  |   |
| Skin Irrit. 2     | H315                  |   |   |  |   |
| Eye Dam. 1        | H318                  |   |   |  |   |
| Resp. Sens. 1     | H334                  |   |   |  |   |
| STOT SE 3         | H335                  |   |   |  |   |
| Aquatic Acute 1   | H400                  |   |   |  |   |
| Aquatic Chronic 2 | H411                  |   |   |  |   |

##### amylase, α-

|                  |                       |   |   |  |   |
|------------------|-----------------------|---|---|--|---|
| CAS No.          | 9000-90-2             |   |   |  |   |
| EINECS no.       | 232-565-6             |   |   |  |   |
| Registration no. | 01-2119938627-26-XXXX |   |   |  |   |
| Concentration    | >= 0,1                | < | 1 |  | % |
| Resp. Sens. 1    | H334                  |   |   |  |   |

##### 1,2-benzisothiazol-3(2H)-one

|               |           |   |      |  |   |
|---------------|-----------|---|------|--|---|
| CAS No.       | 2634-33-5 |   |      |  |   |
| EINECS no.    | 220-120-9 |   |      |  |   |
| Concentration |           | < | 0,05 |  | % |
| Acute Tox. 4  | H302      |   |      |  |   |
| Skin Irrit. 2 | H315      |   |      |  |   |

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|                 |      |
|-----------------|------|
| Eye Dam. 1      | H318 |
| Skin Sens. 1    | H317 |
| Aquatic Acute 1 | H400 |

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

Skin Sens. 1 H317 &gt;= 0,05 %

**Further ingredients****Propane-1,2-diol**

|                  |                       |            |           |
|------------------|-----------------------|------------|-----------|
| CAS No.          | 57-55-6               | EINECS no. | 200-338-0 |
| Registration no. | 01-2119456809-23-XXXX |            |           |
| Concentration    | >= 1                  | < 10       | % [3]     |

**Note**

[3] Substance with occupational exposure limits  
For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

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

**After skin contact**

Wash off immediately with soap and water.

**After eye contact**

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution.  
Seek medical advice immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

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

There is no further relevant information available

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

There is no further relevant information available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet

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

If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

**5.3. Advice for firefighters**

Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product. Use personal protective clothing.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways.

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

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material

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as prescribed under Section 13 "Disposal".

**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**

Observe the usual precautions for handling chemicals.

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

Emptied containers may contain product residues and therefore must be handled with care. Reuse only after appropriate cleaning. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3. Specific end use(s)**

No information available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values****2-(2-butoxyethoxy)ethanol**

|                           |       |                   |    |        |
|---------------------------|-------|-------------------|----|--------|
| List                      | EH40  |                   |    |        |
| Type                      | WEL   |                   |    |        |
| Value                     | 67.5  | mg/m <sup>3</sup> | 10 | ppm(V) |
| Short term exposure limit | 101.2 | mg/m <sup>3</sup> | 15 | ppm(V) |

**2-(2-butoxyethoxy)ethanol**

|                           |       |                   |    |        |
|---------------------------|-------|-------------------|----|--------|
| List                      | IOELV |                   |    |        |
| Type                      | IOELV |                   |    |        |
| Value                     | 67,5  | mg/m <sup>3</sup> | 10 | ppm(V) |
| Short term exposure limit | 101,2 | mg/m <sup>3</sup> | 15 | ppm(V) |

**Propane-1,2-diol**

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

**8.2. Exposure controls****General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

**Respiratory protection**

Not necessary.

**Hand protection**

Chemical resistant gloves

|                      |         |     |     |
|----------------------|---------|-----|-----|
| Appropriate Material | nitrile |     |     |
| Material thickness   | >=      | 0,6 | mm  |
| Breakthrough time    | >       | 480 | min |

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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**Eye protection**

Tightly fitting safety glasses

**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>Physical state</b>                                | liquid              |      |
| <b>Colour</b>  | light yellow, clear |      |
| <b>Odour</b>   | Product specific    |      |
| <b>Melting point</b>                                 |                     |      |
| Remarks  | not determined      |      |
| <b>Boiling point</b>                                 |                     |      |
| Remarks  | not determined      |      |
| <b>Flammability</b>                                  |                     |      |
| evaluation   | not determined      |      |
| <b>Explosion limits</b>                              |                     |      |
| Remarks  | not determined      |      |
| <b>Flash point</b>                                   |                     |      |
| Value  | > 100               | °C   |
| <b>Ignition temperature</b>                          |                     |      |
| Remarks  | not determined      |      |
| <b>Thermal decomposition</b>                         |                     |      |
| Remarks  | Not relevant        |      |
| <b>pH value</b>                                      |                     |      |
| Value  | appr. 8,85          |      |
| <b>Viscosity</b>                                     |                     |      |
| Value  | appr. 11            | s    |
| Method   | DIN 53211 4 mm      |      |
| <b>Solubility in other solvents</b>                  |                     |      |
|  | not determined      |      |
| <b>Octanol/water partition coefficient (log Pow)</b> |                     |      |
| Remarks  | Not relevant        |      |
| <b>Vapour pressure</b>                               |                     |      |
| Remarks  | not determined      |      |
| <b>Density</b>                                       |                     |      |
| Value  | appr. 1,01          | kg/l |
| <b>Vapour density</b>                                |                     |      |
| Remarks  | not determined      |      |
| <b>Particle characteristics</b>                      |                     |      |
| Remarks  | irrelevant (liquid) |      |
| <b>9.2. Other information</b>                        |                     |      |
| <b>Odour threshold</b>                               |                     |      |
| Remarks  | No data available   |      |
| <b>Solubility in water</b>                           |                     |      |
| Remarks  | miscible            |      |

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

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

### **10.2. Chemical stability**

The product is stable.

### **10.3. Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

### **10.4. Conditions to avoid**

Protect from heat and direct sunlight.

#### **Thermal decomposition**

|         |              |
|---------|--------------|
| Remarks | Not relevant |
|---------|--------------|

### **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**

|   |  |        |       |
|---|--|--------|-------|
| ATE   | >  | 10.000 | mg/kg |
| Method  | calculated value (Regulation (EC) No. 1272/2008) |        |       |
| Based on available data, the classification criteria are not met. |  |        |       |

#### **Acute oral toxicity (Components)**

##### **Isotridecanol, ethoxylated**

|        |                 |       |
|--------|-----------------|-------|
| ATE    | 500             | mg/kg |
| Source | Estimated value |       |

##### **subtilisin**

|         |      |       |
|---------|------|-------|
| Species | rat  |       |
| LD50    | 1800 | mg/kg |

##### **2-(2-butoxyethoxy)ethanol**

#### **Acute dermal toxicity**

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

#### **Acute dermal toxicity (Components)**

##### **2-(2-butoxyethoxy)ethanol**

#### **Acute inhalational toxicity**

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

#### **Skin corrosion/irritation**

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

#### **Serious eye damage/irritation**

|                                      |          |
|--------------------------------------|----------|
| evaluation                           | irritant |
| The classification criteria are met. |          |

#### **Sensitization**

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

#### **Mutagenicity**

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

#### **Reproductive toxicity**

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

**Carcinogenicity**

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

**Specific Target Organ Toxicity (STOT)****Single exposure**

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

**Repeated exposure**

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.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity****2-(2-butoxyethoxy)ethanol**

|                      |                           |   |      |
|----------------------|---------------------------|---|------|
| Reference substance  | 2-(2-butoxyethoxy)ethanol |   |      |
| Species              | sun perch                 |   |      |
| LC50                 | 1300                      |   | mg/l |
| Duration of exposure | 96                        | h |      |

**Daphnia toxicity****2-(2-butoxyethoxy)ethanol**

|                      |                           |   |      |
|----------------------|---------------------------|---|------|
| Reference substance  | 2-(2-butoxyethoxy)ethanol |   |      |
| Species              | Daphnia magna             |   |      |
| EC50                 | > 100                     |   | mg/l |
| Duration of exposure | 48                        | h |      |

|                      |                           |   |      |
|----------------------|---------------------------|---|------|
| Species              | 2-(2-butoxyethoxy)ethanol |   |      |
|                      | Daphnia magna             |   |      |
| NOEC                 | 112                       |   | mg/l |
| Duration of exposure | 14                        | d |      |

**Algae toxicity****2-(2-butoxyethoxy)ethanol**

|                      |                           |   |      |
|----------------------|---------------------------|---|------|
| Reference substance  | 2-(2-butoxyethoxy)ethanol |   |      |
| Species              | Desmodesmus subspicatus   |   |      |
| ErC50                | > 100                     |   | mg/l |
| Duration of exposure | 72                        | h |      |
| Method               | OECD 201                  |   |      |

**Bacteria toxicity****2-(2-butoxyethoxy)ethanol**

|                      |                           |     |      |
|----------------------|---------------------------|-----|------|
| Reference substance  | 2-(2-butoxyethoxy)ethanol |     |      |
| Species              | activated sludge          |     |      |
| EC10                 | > 1995                    |     | mg/l |
| Duration of exposure | 30                        | min |      |
| Source               | Literature value          |     |      |

**12.2. Persistence and degradability**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

**Biodegradability**

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**2-(2-butoxyethoxy)ethanol**

|                             |                                  |    |    |   |
|-----------------------------|----------------------------------|----|----|---|
| Reference substance         | 2-(2-butoxyethoxy)ethanol        |    |    |   |
| Value                       | 89                               | to | 93 | % |
| Duration of test evaluation | 28                               | d  |    |   |
| Method                      | readily degradable<br>OECD 301 C |    |    |   |

**12.3. Bioaccumulative potential**

For this subsection there is no ecotoxicological data available on the product as such.

**Octanol/water partition coefficient (log Pow)**

Remarks Not relevant

**12.4. Mobility in soil**

For this subsection there is no ecotoxicological data available on the product as such.

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

The product contains no PBT substances. The product contains no 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**

For this subsection there is no ecotoxicological data available on the product as such.

**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**

Completely emptied packagings can be given for recycling.

**SECTION 14: Transport information**



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|                                  | Land transport ADR/RID   | Marine transport IMDG/GGVSee  |
|----------------------------------|--|---|
| 14.1. UN number                  | The product does not constitute a hazardous substance in land transport. | The product does not constitute a hazardous substance in sea transport. |
| 14.2. UN proper shipping name    | -  | -   |
| 14.3. Transport hazard class(es) | -  | -   |
| 14.4. Packing group              | -  | -   |
| Label                            |  |   |
| 14.5. Environmental hazards      | -  | -   |

**Information for all modes of transport****14.6. Special precautions for user**

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Other information****14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information \*\*\*****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Ingredients (Regulation (EC) No 648/2004)****less than 5 %:**

non-ionic surfactants

**Further ingredients**

enzymes, 1,2-benzisothiazol-3(2H)-one

**VOC \*\*\***

VOC (EU) 3,23 %

**Other information \*\*\***

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

**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]:**

Eye Irrit. 2 H319 Calculation method

**Hazard statements listed in Chapter 2/3**

H302 Harmful if swallowed.  
H315 Causes skin irritation.

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|      |  |
|------|--|
| H317 | May cause an allergic skin reaction.                                       |
| H318 | Causes serious eye damage.   |
| H319 | Causes serious eye irritation.   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation.  |
| H400 | Very toxic to aquatic life.  |
| H411 | Toxic to aquatic life with long lasting effects.                           |

**CLP categories listed in Chapter 2/3**

|                   |  |
|-------------------|--|
| Acute Tox. 4      | Acute toxicity, Category 4                                   |
| Aquatic Acute 1   | Hazardous to the aquatic environment, acute, Category 1      |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2    |
| Eye Dam. 1        | Serious eye damage, Category 1                               |
| Eye Irrit. 2      | Eye irritation, Category 2                                   |
| Resp. Sens. 1     | Respiratory sensitization, Category 1                        |
| Skin Irrit. 2     | Skin irritation, Category 2                                  |
| Skin Sens. 1      | Skin sensitization, Category 1                               |
| 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  
 GGVSee: Gefahrgutverordnung See  
 IMDG: International Maritime Code for Dangerous Goods  
 CAS: Chemical Abstracts Service  
 EAK: Europäischer Abfallkatalog  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 VOC: Volatile Organic Compound  
 GefStoffV: Gefahrstoffverordnung  
 TA Luft: Technische Anleitung zur Reinhaltung der Luft  
 INCI: International Nomenclature of Cosmetic Ingredients  
 n.a.g.: nicht anders genannt  
 MAK: Maximale Arbeitsplatz-Konzentration  
 AGW: Arbeitsplatzgrenzwert  
 BGW: Biologischer Grenzwert  
 TRGS: Technische Regeln für Gefahrstoffe  
 OEL: Occupational exposure limit  
 SUVA: Schweizerische Unfallversicherungsanstalt  
 WEL: Workplace exposure limit  
 MAC: Maximale aanvaarde concentratie (Netherlands)  
 MEL: Maximum exposure limits  
 NOEL: No observable effect level  
 NOEC: No observable effect concentration  
 LD: Lethal dose  
 LC: Lethal concentration  
 LLC: Lowest lethal concentration  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: Very persistent and very bioaccumulative  
 SVHC: Substances of very high concern  
 DNEL: Derived no effect level  
 DMEL: Derived minimal effect level  
 PNEC: Predicted no effect concentration  
 PEC: Predicted environmental concentration  
 GHS: Globally Harmonized System of classification and Labelling of Chemicals  
 REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals  
 UN: United Nations  
 EG: Europäische Gemeinschaft  
 EWG: Europäische Wirtschaftsgemeinschaft  
 EU: European Union  
 HSNO: Hazardous Substances and New Organisms Act (New Zealand)

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ATE: Acute Toxicity Estimate

STOT: Specific Target Organ Toxicity

**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.