

A10³ DES BAuA-N-75566APURO GmbH
D 59909 Bestwig

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| Section 1: Identification of the substance / preparation and of the company |
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1.1 Product identifier**APURO Professional Disinfection A10³ DES****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Disinfectant

1.2.2 Uses advised against

None known

1.3 Details of the supplier of the data sheet**Company**

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| Section 2: Hazards identification |
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2.1 Classification of the substance or mixture**2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

Registration:

PT1 Human hygiene

PT2 Disinfectants and algacides not intended for direct application to humans or animals

PT3 Veterinary hygiene

PT4 Food and feed area

PT5 Drinking water

PT11 Preservatives for liquid-cooling and processing systems

PT12 Slimicides

2.2 Label elements**Labelling according to Regulation (EC) 1272/2008****Hazard pictograms** none.**Signal word** none.**Hazard statements** none.**Precautionary statements** none.**Biocide (528/2012/CE) contains** 0.13g/100g Sodium hypochlorite

Registration: PT1, PT2, PT3, PT4, PT5, PT11, PT12

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No particular hazards known.

Environmental hazards

The product/substance has the Water Hazard Class 1.

SECTION 3: Composition / Information on ingredients**3.1 Product-type:**

The product is a mixture

| Range [%] | Substance |
|-----------|--|
| <2 | Sodium chloride CAS: 7647-14-5, EINECS/ELINCS: 231-598-3 |
| 0.13 | Sodium hypochlorite CAS: 7681-52-9, EINECS/ELINCS: 231-668-3, EU-INDEX: 017-011-00-1 GHS/CLP: Met. Corr. 1: H290 – Skin Corr. 1B: H314 – Aquatic Acute 1: H400, M = 10 EEC: C-N, R 31-34-50 |
| <0.0002 | Sodium hydroxide CAS: 1310-73-2, EINECS/ELINCS: 215-185-5, EU-INDEX: 011-002-00-6 GHS/CLP: Skin Corr. 1A: H314 – Met. Corr. 1: H290 EEC: C, R 35 |

Comment on component partsSubstances of Very High Concern - SVHC (Candidate List of Substances of Very High Concern for authorization): substances are not contained or are below 0.1 %.
The full text of H-Statement and R-phrases: see SECTION 16**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Change soaked clothing.

Inhalation

Ensure supply of fresh air.

Skin contactWhen in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.**Eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice .

IngestionDo not induce vomiting.
Rinse out water and give plenty of water to drink.
Supply with medical care.**4.2 Most important symptoms and effect, both acute and delayed**

no Information available.

4.3 Indication of any immediate medical attention and special treatment neededTreat symptomatically.
Forward this sheet to the doctor.**SECTION 5: Fire-fighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixtureUnknown risk of formation of toxic pyrolysis products.
Chlorine compounds.



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5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8 + 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
The normal safety precautions for handling chemicals must be observed.

Do not eat or drink when working.
Remove soiled clothing.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with acids.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place.

7.3 Specific end use(s)

See product use, SECTION 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameter

Ingredients with occupational exposure limits to be monitored (GB) not applicable.

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection safety glasses.DIN / EN 166 reference: VWR 111-0432

Hand protection The details concerned are recommendations. Please contact the glove supplier for further information.
Butyl rubber (EN 374) reference: VWR 111-0432

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| Skin protection | light protective clothing. |
| Others | Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipment to chemicals should be ascertained with the respective supplier. |
| Respiratory protection | If ventilation insufficient, wear respiratory protection. Short term, filter apparatus, filter A. |
| Thermal hazards | not applicable. |
| Delimitation and monitoring of the environmental exposition | Comply with applicable environmental regulations limiting discharge to air, water and soil. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|----------------|
| Form | liquid |
| Color | clear |
| Odor | chlorine |
| Odor threshold | not determined |
| pH-value | 9.0 |
| pH-value [1%] | not determined |
| Boiling point [°C] | not determined |
| Flash point [°C] | not applicable |
| Flammability [°C] | not applicable |
| Lower explosion limit | not applicable |
| Upper explosion limit | not applicable |
| Oxidizing properties | no |
| Vapour pressures/gas pressure [kPa] | not determined |
| Density [g/ml] | 1,019 |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | soluble |
| Partition coefficient [n-octanol/water] | not determined |
| Viscosity | not determined |
| Relative Vapor density determined in air | not determined |
| Evaporation speed | not determined |
| Melting point [°C] | not determined |
| Autoignition temperature [°C] | non applicable |
| Decomposition temperature [°C] | non determined |

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

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Stable under normal ambient condition (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

String heating.

10.5 Incompatible materials

Sodium hypochlorite: Evolution of chlorine under influence of acids.

10.6 Hazardous decomposition products

Chlorine compounds.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute Toxicity**

| Range [%] | Substance |
|-----------|--|
| <2 | Sodium chloride, CAS: 7647-14-5 LD 50, oral, Rat: 3000 mg/kg (IUCLID) |
| <0.0002 | Sodium hydroxide, CAS: 1310-73-2 LD 50, oral, Rat: 2000 mg/kg (Lit.) LD 50, dermal, Rabbit: 1350 mg/kg (IUCLID) |
| 0.13 | Sodium hypochlorite, CAS: 7681-52-9 LD 50, oral, Rat: >5000 mg/kg (IUCLID) LD 50, inhalative, Rat: >10.5 mg/l (IUCLID) |

Serious eye damage / irritation not determined.**Skin corrosion/irritation** not determined.**Respiratory or skin sensitization** not determined.**Specific target organ toxicity - single Exposition** not determined.**Specific target organ toxicity - repeated Exposition** not determined.**Mutagenicity** not determined.**Reproduction Toxicity** not determined.**Carcinogenicity** not determined.**General remarks** Toxicological data of complete product are not available. No classification on the basis of the calculation procedure of the preparation directive.

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| Range [%] | Substance |
|-----------|---|
| <2 | Sodium chloride, CAS: 7647-14-5 |
| | LC50, (96 h), <i>Lepomis macrochirus</i> : 9675 mg/l (IUCLID) |
| | EC50, (48 h), <i>Daphnia magna</i> : 1000 mg/l (IUCLID) |
| <0.0002 | Sodium hydroxide, CAS: 1310-73-2 |
| | LC 50, (96 h), Fish: 35-189 mg/l |
| | LC50, (96 h), <i>Oncorhynchus mykiss</i> : 45.4 mg/l (IUCLID) (50%) |
| 0.1 | EC50, (24 h), <i>Daphnia magna</i> : 76 mg/l (50%) |
| | Sodium hypochlorite, CAS: 7681-52-9 |
| | LC50, (96 h), Fish, 0,01-01 mg/l |
| | EC50, (48 h), <i>Daphnia magna</i> : 0.01-0.1 mg/l |

12.2 Persistence and degradability

| | |
|---------------------------------|--|
| Behavior in environment | not determined. |
| Behavior in sewage plant | not determined. |
| Biological degradability | The methods for determining the biological degradability are not applicable to inorganic substances. |

12.3 Bioaccumulative potential No information available.**12.4 Mobility in soil** No information available.**12.5 Results of PBT and vPvB assessment**

Based on all available information not to be classified as PBT/vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.
 No classification on the basis of the calculation procedure of the preparation directive.
 Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EG as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue EWC since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

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|--------------------------------|---|
| Product | for recycling, consult manufacturer. |
| Waste-No. (recommended) | 060314 |
| Contaminated packaging | Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product. |
| Waste-No. (recommended) | 150102. |

SECTION 14: Transport information**14.1 UN-Number**

See Section 14.2 in accordance to UN shipping name.

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| | |
|--|-------------------------------------|
| Transport by land according to ADR/RID | NO DANGEROUS GOOD |
| Inland Marine transport in accordance with IMDG | NOT CLASSIFIED AS „DANGEROUS GOODS“ |
| Air transport in accordance with IATA | NOT CLASSIFIED AS „DANGEROUS GOODS“ |

14.3 Transport Hazard class(es)

See Section 14.2 in accordance to UN shipping name

14.4 Packing group

See Section 14.2 in accordance to UN shipping name

14.5 Environmental hazards

See Section 14.2 in accordance to UN shipping name.

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code

Not applicable.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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|--|---|
| ECC-REGULATIONS | 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; 528/2012 |
| TRANSPORT-REGULATIONS | DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013) |
| NATIONAL REGULATIONS (GB) | EH40/2005 Workplace exposure limits (second edition, published December 2011) |
| - Observe employment restriction for people | no |
| - VOC (1999/13/CE) | 0% |

15.2 Chemical safety assessment Chemical safety assessments for substances in this mixture were not carried out.**SECTION 16: Other information****The data given are those on the active ingredients**

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|---|---|
| 16.1 R-phrases (SECTION 3) | R 31: Contact with acids liberates toxic gas. R 34: Causes burns. R 50: Very toxic to aquatic organisms. R 35: Causes severe burns. |
| 16.2 Hazard statements (SECTION 3) | H 400: Very toxic to aquatic life. H 314: Causes severe burns and eye damage. H 290: May be corrosive to metals. |
| 16.3 Abbreviations and acronyms : | ADR = Accord européen relatif au transport international des marchandises dangereuses par route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure AVV = Abfallverzeichnis-Verordnung BGI = Berufsgenossenschaftliche Informationen CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Economic Community EINECS = European Inventory of Existing Commercial Chemical Substances |



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ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50 %
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50 %
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®/STEL = Threshold limit value – short time exposure limit
 TRGS = Technische Regeln für Gefahrstoffe
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative
 VwVwS = Verwaltungsvorschrift wassergefährdende Stoffe

16.4 Other information

Customs Tariff

not determined

Modified position

SECTION 2 been added: none

SECTION 2 been added: none

SECTION 2 been added: none

SECTION 2 been added: none

SECTION 8 been added: Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 8 deleted: See SECTION 6+7

SECTION 12 been added: Based on all available information not to be classified as PBT or vPvB respectively.

SECTION 12 deleted: PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.