



APURO GmbH
D 59909 Bestwig

Section 1: Identification of the substance / preparation and of the company

1.1	Product identifier	APURO PROFESSIONAL APUROCLEAN+
1.2	Relevant identified uses of the substance or mixture and uses advised against	
1.2.1	Relevant uses	Cleaner, odor neutralisation
1.2.2	Uses advised against	None known
1.3	Details of the supplier of the data sheet	
	Company	APURO GmbH Am Alten Güterbahnhof 2 D 59909 Bestwig / Germany Telefon +49 2904 7123370 Homepage: www.apuro.eu E-Mail: office@apuro.eu
	Address enquiries to Technical Information Safety Data Sheet	office@apuro.eu office@apuro.eu
1.4	Emergency Phone	
	Poison Control Center:	
	Germany: Giftnotruf Berlin	+4930 30686700 (24h German & English)
	Austria Wien	+43 1 40 6 43 43

Section 2: Hazards identification

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 algaecides 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	0.25g/100g Sodium hypochlorite Registration: PT1, PT2, PT3, PT4, PT5, PT11, PT12 BAuA-Nr.: N-75340



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2.3 Other hazards

Human health dangers

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
<3	Sodium chloride CAS: 7647-14-5, EINECS/ELINCS: 231-598-3
0.25	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 parts

Substances 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 contact

When 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 .

Ingestion

Do 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 needed

Treat 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 mixture

Unknown 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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10.2 Chemical Stability

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
<3	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)
0.25	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.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
<3	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%) EC50, (24 h), <i>Daphnia magna</i> : 76 mg/l (50%)
0.25	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



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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.

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.

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOOD
Inland Marine transport in accordance with IDMG	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.



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SECTION 15: Regulatory information

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

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

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 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



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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.

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