

# EU-MATERIAL SAFETY DATA SHEET

In accordance with 1907 / 2006 / EG -REACH (DE)

## 1. Material / Preparation an company name

Trade names	MSH-CLEANER/ ANOSAN
Customs tariff number	38089490
Uses advised against application	none known
Manufacturer	ecabiotec AG
Supplier	M·S·H MEDICAL SERVICE HOEBER GmbH & Co KG. Bergstrasse 6 D-56729 Siebenbach info@m-s-h.eu
Technical support Information MSDS Emergency Information	info@ecabiotec.de +49 (0) 6105 45 40 640 (mo - fr. 10:00 - 17:00)

## 2. Specifications / scope

Trade name	Product type	BAUA-No.	Scope
MSH-CLEANER	PT2	N-61043	Surface disinfection

## 3. Coposition / Information on ingredients

**Product type:** Mixture

Component	Concentration	CAS-No.	EINECS-No.
Sodium hypochlorit NaOCl	0,02 - 0,08%	7681-52-9	231-668-3
Sodium hypochlorit NaOCl	200 - 800 mg/l		
Sodium chloride NaCl	< 0,1 - 0,8 %	7647-14-5	231-598-3
Sodium chloride NaCl	< 1,0 - 8,0 g/l		
Water H <sup>2</sup> O	> 99 %	7732-18-5	231- 791-2

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**Active substance:**

Sum parameter	measured value	CAS-No.	EINECS-No.
Active chlorine released from hypochlorous acid NaOCl	200 - 800 mg/l	7790-92-3	232-232-5
Redoxpotential ORP (Ag/AgCl-electrodes)	+750 bis + 950 mV		

## 4. Possible hazards

**Classification according to guideline (EG)1 272/2008 (CLP)** not specified

**Classification according to regulation 67/548/EWG or guideline 1999/45/EG** not hazardous material

**Labeling elements** The product does not require labeling according to the EG-guidelinesN

**Hazard symbols/R-phrase** none

**Physical-chem. hazards** none known

**Environmental hazards** does not contain polybutylene terephalate (PBT) or other persistent bioaccumulatory substances (vPvB)

**Other hazards** none known

## 5. First aid measures

**General references** not special measures necessary. Consult doctor in case of complaints

**After eye contact** rinse out with water

**After skin contact** rinse out with water

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## 5. First aid measures cont.

<b>After consumption</b>	rinse with water, drink water
<b>After inhalation</b>	fresh air supply in case of complaints
<b>Acute an delayed occurring symptoms and effects</b>	none known
<b>Instructions for the doctor</b>	treat symptomatically. submit msds

## 6. Measures for fire fighting

<b>Suitable fire extinguishing agents</b>	according to surroundings, product non inflammable
<b>Special hazards arising from the substance / mixture</b>	none; small amounts of chlorine gas can occur
<b>Special dangers in fire fighting</b>	no special measures required

## 7. Measures in case of unintentional release

<b>Protective equipment an emergency procedures</b>	No special measures required
<b>Environmental measures</b>	Rinsing with plenty of water if released in the environment
<b>Method for containing and cleaning up</b>	Absorb with liquid binding material and dispose properly

## 8. Handling and storage

<b>Precaution for safe handling</b>	For appropriate use no particular measures necessary, wear protective goggles when decanting or filling up the concentrate.
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## 8. Handling and storage cont.

<b>Instruction for safe storage</b>	Keep only in the original container, keep the container tightly closed Protect from direct sun and frost. Recommended storage temperature 5 to 25°C. No contact with acid Storage category 12 (nonflammable liquids)
<b>Information about protection against fires and explosions</b>	No special instruction

**Classification "Operational Safety Ordinance"**

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## 9. Permissible exposure limit/personal protective measures

<b>Components with critical values that require monitoring at the workplace</b>	The product does not contain any relevant quantities of materials with critical values
<b>Limitation an monitoring of exposure:</b>	
<b>Eye protection</b>	wear protective goggles
<b>Hand protection</b>	not relevant
<b>Body protection</b>	not relevant
<b>Other protection measures</b>	The usual caution measures while dealing with chemicals have to be observed
<b>Respiratory protection</b>	not required
<b>Thermal hazards</b>	not applicable
<b>Limitation an monitoring</b>	see section 7. and 8
<b>Environmental exposure</b>	

## 10. Physical and chemical properties

### General Information

<b>Form</b>	liquid
<b>Color</b>	colorless
<b>Odor</b>	weak characteristic pool odor
<b>Odor threshold</b>	not applicable

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## 10. Physical and chemical properties (cont.)

Odor threshold	not applicable
pH value at 25°C	6,0 - 9,0
pH-value (1%)	not relevant
Boiling point °C	98 - 102
Flashpoint °C	not applicable
Inflammability °C	not applicable
Fire-provoking properties	none
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Density at 25°C in g/cm <sup>3</sup>	1,001 - 1,004
Steam and gas pressure (kPa)	not specified
Water solubility	completely soluble
Viscosity	not relevant
Rel. Vapour density	not relevant
Evaporation rate	not relevant
Melting point °C	0 to -3
Self-flammability	not self-inflammable
Decomposition temperature	
Others	
Solvent content	none

## 11. Stabilität und Reaktivität

Reactivity	None if used properly
Chemical stability	Under normal environmental conditions 24 month
Hazardous reaction	Reaction with acids, acts strongly oxidizing
Conditions to avoid	high temperature (<55°C)
Materials to avoid	metals without protection
Hazardous decomposition products	Sodium chlorate, contact with acid: chlorine gas

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## 12. Data on toxicology

Acute toxicity	not known
General notes	No classification has been done by calculation in accordance with the "General Classification Guideline of mixtures of the EG" in the last valid version.

## 13. Data on ecology

Toxicity	No data on toxicity
Persistency an degradabilityt	not determined
Mobility accumulation potential	no information
PBT- and vPvB-evaluation	no classification as PBT or vPvB
Other ecological notes	Do not discharge product unmonitored into the environment. Eco-toxicological data have not been determined, negative eco-toxicological effects are not be expected.

## 14. Disposal considerations

Processes of waste management	Product residues are to be disposed under the waste disposal code 2008/98/EG als well as the national and regional rules. The waste code (EU) is established in consultation with the regional waste disposer.
Package	Disposal of plastic packages in consultation with your local disposer

## 15. Transport information

**No dangerous goods in terms of dangerous goods regulations for transport by ground, sea and air (ARD/RID and GGVSE, IMDG/GGVSee, ICAO-TI, IATA-DGR)**

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## 16. Legislation

**Safety, health an environmental regulation/legislation specific for substance or mixture**

<b>EU-regulaton</b>	1967/548(1999/45); 1991/689(2001/118) 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EWG(2008/47/EG); 453/2010/EG
<b>Transport regulation</b>	ARD (2013); IMDG-Code (2013, 36.Amdt.) IATA-DGR (2013)
<b>National regulation (DE)</b>	GefStoffV 2011; WRMG; WHG; TRG 300; TRGS 200, 220, 615, 900 and 905
<b>Water-endangering class</b>	nwg (non waterendangering) VwVwS 27.7.2005 (version:2013)
<b>Ordinance regulation the handling of incidents</b>	no
<b>TA-air</b>	not applicable
<b>GISBAU, product code</b>	not applicable
<b>Storage class (TRGS 510)</b>	LGK 12; not inflammable liquids
<b>Employment restrictions</b>	no
<b>VOC (1999/13/EG)</b>	0%
<b>Other regulations</b>	not applicable
<b>Chemical safety assessment</b>	was not performed

## 17. Other information

**This version of the msds replaces all previous version**

All specifcatons mentioned above are based on the present state of our knowledge. They refer to safety-relevant aspects and do not represent any definition of a property in the legal sense. Legal specifications are to be considered in own responsibility.

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## 18. Abbreviations and acronyms

<b>ARD</b>	Accord européen relatif au transport international des marchandises dangereuses par Route
<b>RID</b>	Règlement concernant le transport international ferroviare de marchandises dangereux
<b>GGVSE</b>	Regulation of the internal and trans border transport of dangerous goods on the road and with railroad
<b>IMDG</b>	International Maritime Code for Dangerous Goods
<b>ICAO-TI</b>	International Civil Aviation Organization - Technical
<b>IATA</b>	International Air Transport Association
<b>DGR</b>	Dangerous Goods Regulation
<b>GefStoffV</b>	Ordinance of Hazardous Substance
<b>WRMG</b>	Washing and Cleaning Agent Law
<b>WHG</b>	Water Resources Act
<b>TRG</b>	Technical Rules for Technical Gas
<b>TRGS</b>	Technical Rules for Hazardous Agents
<b>TA-Luft</b>	Technical Guideline for Air Pollution Control
<b>LGK</b>	Storage Category
<b>GISBAU</b>	Hazardous Substances-Information System of the BG BAU
<b>VwVwS</b>	Administrativ Regulation on Sbstances Hazardous to Water
<b>REACH</b>	Registration, Evaluation, Authorisation of Chemicals
<b>PBT</b>	Polybutylenterephthalat(e)
<b>vPvB</b>	Very persistent and very bioaccumulated substances
<b>VOC</b>	Volatile Organic Compounds
<b>EWG</b>	European Economic Community
<b>EU</b>	European Union
<b>EG</b>	European Community
<b>CLP</b>	Regulation on Classification, Labelling and Packaging of Substances and Mixtures