## MACHEREY-NAGEI



## Safety Data Sheet

## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 1/8
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifie	r
-----------------------	---

REF Product name 931090 VISOCOLOR ECO Swimming pool (Chlorine + pH)

E-mail: sds@mn-net.com (msds@mn-net.com)

http://www.mn-net.com/SDS

REACH Registration number(s): see SECTION 3.1/3.2 or A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 2	0 mL	pH-1
1 x 2	5 mL	Cl <sub>2</sub> -2
1 x 1	8 mL	Cl <sub>2</sub> -1

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

**Relevant identified uses** 

Product for analytical use. Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

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

### Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel.: +49 2421 969 0

#### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product

	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H315 H319	Skin Irrit. 2 Eye Irrit. 2

 $\land$ 

#### 2.1 Classification of the substance or mixture

### 20 mL pH-1

Signal word

Do not need labelling as hazardous

No hazard class

25 mL Cl<sub>2</sub> -2

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	$\langle \mathbf{I} \rangle$
	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H315 H319	Skin Irrit. 2 Eye Irrit. 2

### 18 mL Cl<sub>2</sub> -1

Do not need labelling as hazardous Signal word

No hazard class

#### 2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

### 20 mL pH-1

Do not need labelling as hazardous Signal word: -

### 25 mL Cl<sub>2</sub> -2



### 18 mL Cl<sub>2</sub> -1

Do not need labelling as hazardous Signal word: -

### 2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. ---

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Other hazards

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

20 mL pH-1

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US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

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REF: 931			CO Swimming pool (Chlo	orine + pH)	Page: 3/
Printing d	ate: 02.06.2020	Date of issue: 17	7.04.2019		
	Chemical: phen	olred (pH indicator)		CAS No.: 143-74-8	
	Classification:	No criteria for classification or naming	of chemical not required.		
	Formula:	C <sub>19</sub> H <sub>14</sub> O <sub>5</sub> S			
	Pseudonym:	4,4'-(1,1-dioxido-3H-2,1-benzo	oxathiol-3-ylidene)bis-ph	enol	
	TSCA Inventory:	listed			
	EC No.:	205-609-7		00000550	
	RTECS: KE No.:	SJ7490000 KE-02748	MFCD:	00003552	
	Concentration:	< 0.10 %			
	acc. CLP (GHS):	The criteria for classification are not fu	ulfilled		
	()		annied.		
	25 mL Cl <sub>2</sub> -2				
		Diethyl-1,4-phenylene diammoniu		CAS No.: 6283-63-2	
	Classification:	H302, Acute Tox. 4 oral, H312	2, Acute Tox. 4 derm.		
	Formula:	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> •H <sub>2</sub> O N,N-diethylbenzene-1,4-diam	monium quifeto		
	Pseudonym: TSCA Inventory:	listed (CAS 6065-27-6)	nonium sunate		
	EC No.:	228-500-6	Indice No.:	612-080-00-X	
	RTECS:	SS9625000	MFCD:	00012993	
	Concentration:	0.1 - <1 %			
	acc. CLP (GHS):	The criteria for classification are not for	ulfilled.		
	Chemical: sulfu	ric acid		CAS No.: 7664-93-9	
	Classification:	H314, Skin Corr. 1B			
	Formula:	$H_2 SO_4 (•H_2 O)$			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119458838-20-xxxx	Indian Na .	010 000 00 0	
	EC No.: RTECS:	231-639-5 WS5600000	Indice No.:	016-020-00-8	
	KTECS. KE No.:	KE-32570, >10% Toxic 97-1-4	105 Acc Precaution Cha	am	
	Concentration:	5 - <15 %		5111.	
	acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye	Irrit. 2		
	18 mL Cl <sub>2</sub> -1	photo buffor colution		CAS No.: -	
	Chemical: <i>phos</i> j Classification:	phate buffer solution	af shaming and so that	UA3 NU	
	Formula:	No criteria for classification or naming K/Na <sub>1-3</sub> H <sub>2-0</sub> PO <sub>4</sub> • x H <sub>2</sub> O	or cnemical not required.		
	TSCA Inventory:	all listed			
	KE No.:	listed			
	Concentration:	50 - <75 %			
	acc. CLP (GHS):	The criteria for classification are not for	ulfilled.		
.3	Remarks				
.5		e added with water [CAS No. 773	2-18-5] to 100%.		
	List of H and D phrases: asa	•			

List of H and P phrases: see section 16.1

## **SECTION 4: First aid measures**

#### 4.1 **Description of first aid measures**

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

#### 4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---



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## MACHEREY-NAGEI



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### 4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

- 5.2 Special hazards arising from the substance or mixture Formation of hazardous and caustic vapour-air mixtures possible. ---
- 5.3 Advice for firefighters No, for listed product. Product package burns like paper or plastic.
- 5.4 Additional information

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Regular staff training is necessary.
- 6.2 **Environmental precautions** not necessary
- 6.3 Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.
- 6.4 **Reference to other sections**

## **SECTION 7: Handling and storage**

7.1	<b>Precautions for safe handling</b> Handling in accordance with the test instruction, that comes with the product.
7.2	Conditions for safe storage, including any incompatibilities
	The original product package of MACHEREY-NAGEL allows a safe storage.         Storage class (VCI):       8B         Water hazard class (DE):       3
7.2.1	Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage.
7.3	Specific end use(s) Product for analytical use.

## **SECTION 8: Exposure controls/personal protection**

### 8.1 **Control parameters**

20 mL pH-1 Chemical:	phenolred (pH indicator)	CAS No.: 143-74-8
25 mL Cl <sub>2</sub> -2		
Chemical:	N,N-Diethyl-1,4-phenylene diammonium sulfate	CAS No.: 6283-63-2
NIOSH:	not listed	
[TWA]	Time-weighted average to a reference period of 8 hours, [STEL] Short	t-term exposure limit related to a 15-minute period
OSHA:	not listed	



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	Chemical: sulfuric acid DNEL: DNEL = Derived No-Effect I PNEC(fresh water): PNEC = Predicted No Effect EU value: TRGS 900 (DE): Short-term exposure factor: skin resorptive (H), respiration SUVA(CH) MAK value: NIOSH:	[inh] 50 μg/m <sup>3</sup> .evel (for workers) 2.5 μg/L ted Concentration 0.1 e mg/m <sup>3</sup> 0.1 E mg/m <sup>3</sup> E/e respirable 1 (I), Y tory sensitizable (Sa), skin sensitizable (Sf 0,1 e mg/m <sup>3</sup> NTP Report on Carcinogens (RoC	CAS No.: 7664-93-9 n), teratogenic (Z) not securely excluded / (Y) certainly exc C) List Yes (Known to be a human carcinogen) ] Short-term exposure limit related to a 15-minute period	cluded	
	<b>18 mL Cl<sub>2</sub> -1</b> Chemical: phosphate buff	er solution	CAS No.: -		
8.2	Exposure controls				
0.2	Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.				
8.2.1	Respiratory protection No additional recommendations.				
8.2.2	Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.				
8.2.3	<b>Eye protection</b> Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.				
8.2.4	Skin protection Not necessary.				
8.2.5	<b>Personal hygiene</b> Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.				
SECTI	ON 9: Physical and ch	emical properties			
9.1	Information on basic physic	sical and chemical proper	ties		
	<b>20 mL pH-1</b> Appearance: liquid pH: Specific gravity:	Colour: red 7-8 1,0 g/cm³	Odor: odorless		
	<b>25 mL Cl<sub>2</sub> -2</b> Appearance: liquid pH: Specific gravity:	Colour: rose 0-1 1,1 g/cm³	Odor: odorless		
	<b>18 mL Cl<sub>2</sub> -1</b> Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 9 1,2 g/cm³ 0-100 %	Odor: odorless		

### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. **Relevant Properties of Substance Group** 



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SECI	FION 10: Stability and r	eactivity						
10.1	Reactivity							
	no further data available.							
0.2	Chemical stability No known instability.							
0.3	Possibility of hazardous No further data available.	reactions						
0.4	Conditions to avoid							
0.5	Incompatible materials Avoid contact with strong acids of	r alkalines.						
0.6	Hazardous decomposition							
	In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expirate period under recommended conditions.							
SECI	FION 11: Toxicological	information						
1.1	Information on toxicolog		e data on the toxicity of this product are not avail	able				
	20 mL pH-1	or pure substances. Quantitativ	e data on the toxicity of this product are not avail					
	-	<i>Ired (pH indicator)</i> listed : KE-02748	CAS No.: 143-74-8					
	25 mL Cl <sub>2</sub> -2							
		iethyl-1,4-phenylene diammonium listed (CAS 6065-27-6)California not listed Ca not listed, Japan PDSCL: not lis not listed not listed 497 mg/kg	Proposition 65 List: not listed anada CEPA 1999: not listed					
	Chemical: sulfuri		CAS No.: 7664-93-9					
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms:	1 ppm inhalation, ingestion, skin and/o Eyes, skin, respiratory system, t		iunctivitis: stomatis:				
	dental erosion; eye, skin bu Australia NICNAS: Japan CSCL/PRTR:	ns; dermatitis not listed Ca not listed, Japan PDSCL: Delete	anada CEPA 1999: DSL Yes erious Substance	,,, ,,				
	Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inventory LD50 <sub>orl rat</sub> : LC50 <sub>ihl rat</sub> :	listed ≥1,0%/≥1,0%, Article 57-2 Accident Precaution Chemical Y : KE-32570, >10% Toxic 97-1-40 2140 mg/kg [8h] 600/ [4h] 850 mg/m <sup>3</sup>	és í					
	TRGS 905 (DE):	Kat 4						
	18 mL Cl <sub>2</sub> -1							
	Chemical: phosp	hate buffer solution	CAS No.: -					



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SECT	FION 12: Ecological information of the second se	tion	
12.1	Toxicity		
	Following information is valid for pure substances.		
	<b>20 mL pH-1</b> Chemical: phenolred Water hazard class (DE): Storage class (VCI):	l (pH indicator) 1 12-13	CAS No.: 143-74-8
	<b>25 mL Cl</b> <sub>2</sub> - <b>2</b> Chemical: <i>N,N-Dieth</i> Water hazard class (DE): Storage class (VCI):	yl-1,4-phenylene diammonium sulfate 3 12-13	CAS No.: 6283-63-2
	Chemical: sulfuric ac PNEC(fresh water) : PNEC = Predicted No Effected Concent		CAS No.: 7664-93-9
	LC50 <sub>fish/96</sub> h : EC50 <sub>daphnia/48</sub> h : EC10 <sub>pseudomonas putita/16</sub> h : Water hazard class (DE): Storage class (VCI):	[NOEC, 65d] 25 μg/L 100 mg/L [72h] 100 mg/L 1 WGK No.: 0182 8 Β	
	<b>18 mL Cl<sub>2</sub> -1</b> Chemical: phosphate Water hazard class (DE): Storage class (VCI):	e buffer solution 1 12	CAS No.: -
12.2	Persistence and degradability not necessary		
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB assessment no data available		
12.6	Other adverse effects no additional data available		
SECT	ION 13: Disposal considera	tions	
	Please observe local regulations for collection formation on laboratory waste disposal (was	and disposal of hazardous waste and contact v ste code number 16 05 06).	waste disposal company, where you will obtain
13.1	Waste treatment methods		

Normally it is possible to empty small amounts (diluted!) into drains.

## **SECTION 14: Transport information**

14.1 - 14.4: No dangerous goods according the transport regulations

14.5 **Environmental hazards** 

none, contains only small quantities of hazardous substances

14.6 Special precautions for user not necessary

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14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable



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US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

Version: M V 4.12.0 E-mail: info@mn-net.com

Tel.:

Fax:

DE/international:

+41 62 388 55 00 +41 62 388 55 05 Fax: E-mail: sales-ch@mn-net.com

Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com



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## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013
 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung GefStoffV), revised on November 2010, according to Directive 98/24/EC
 TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products,
 updated October 2011
 MN Leaflet/User manual, also see www.mn-net.com
 Look for your country-specific regulations.

 15.2 Chemical safety assessment
 not necessary for these small amounts -- 
 SECTION 16: Other information

### 16.1 List of H and P phrases

- 16.1.1 List of relevant H phrases H315 Causes skin irritation.
- H319 Causes serious eye irritation.16.1.2 List of relevant P phrases
- P280sh Wear protective gloves/eye protection.

### 16.2 Training advice

Regular safety training.

## 16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

## 16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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## 16.5 Sources of key data

Regulation 790/2009/EU adaptation of CLP regulation 1272/2008/EU to technical and scientific progress Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

### **Revisions/Updates**

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU

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MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany DE/international: CH: FR:

 
 ISO 9001 сектипер
 Tel.:
 +49 24 21 969-0

 Fax:
 +49 24 21 969-199

 Version: M V 4.12.0
 E-mail: info@mn-net.com
 CH: Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com