

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 1/11
Printing date: 14.01.2026	Date of issue: 28.02.2025	Version: 2.4.2.32

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

### 1.1 Product identifier

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

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 25 mL Cl<sub>2</sub>-2 UFI: 3XXU-0355-420V-F0Q6  
 1 x 20 mL pH-1  
 1 x 18 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  
 Valencienner Str. 11, 52355 Düren, Germany  
 Phone: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.  
 DE: Gemeinsames Gif tinformat ionszentrum (GGIZ)  
 99089 Erfurt tel. +49 361 730 730, <<https://www.ggiz-erfurt.de>>

You find our current versions of SDS in Internet: <<http://www.mn-net.com/SDS>>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008



GHS05

Signal word DANGER

Hazard identification	Hazard classes/categories
H314	Skin Corr. 1 B

### 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

#### 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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REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 2/11
Printing date: 14.01.2026	Date of issue: 28.02.2025	Version: 2.4.2.32



GHS05

Signal word	DANGER
<b>Hazard identification</b>	<b>Hazard classes/categories</b>
H314	Skin Corr. 1 B

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

Signal word	Do not need labelling as hazardous
No hazard class	-

List of H phrases: see section 16.2

## 2.2 Label elements according regulation (EC) 1272/2008

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

**20 mL pH-1**

Do not need labelling as hazardous  
Signal word: -

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



GHS05

Signal word: DANGER  
H314  
Causes severe skin burns and eye damage.  
P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P405, P501  
Do not breathe dust/vapours. Wash hands thoroughly after handling. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Store locked up. Dispose of contents/container to regulated waste treatment.

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

Do not need labelling as hazardous  
Signal word: -

### Label elements of the complete product



GHS05

Signal word: DANGER  
H314  
Causes severe skin burns and eye damage.  
P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P405, P501  
Do not breathe dust/vapours. Wash hands thoroughly after handling. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Store locked up. Dispose of contents/container to regulated waste treatment.



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# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931090

VISOCOLOR ECO Swimming pool (Chlorine + pH)

Page: 3/11

Printing date: 14.01.2026

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## 2.3 Other hazards

### Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive.

### Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

### Information pertaining to particular risks to the environment

Should not be released into the environment.

**PBT:** not applicable

**vPvB:** not applicable

### Possible endocrine disrupting effects

no data available

## SECTION 3: Composition / information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 20 mL pH-1

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

Substance name: *N,N-Diethyl-1,4-phenylene diammonium sulfate*  
CAS No.: 6283-63-2

Substance rating: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm.

Formula: C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>•H<sub>2</sub>O

Pseudonym (de): DPD, 4-Amino-N,N-diethylanilin

EC No.: 228-500-6

Indice No.: 612-080-00-X

Concentration: 0,1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

Substance name: *sulfuric acid*

CAS No.: 7664-93-9

Substance rating: H314, Skin Corr. 1 B

Formula: H<sub>2</sub>SO<sub>4</sub> (•H<sub>2</sub>O)

REACH Reg. No.: 01-2119458838-20-xxxx

EC No.: 231-639-5

Indice No.: 016-020-00-8

Specific concentration limit: Eye Irrit. 2; H319: 5 % ≤ C < 15 % - Skin Irrit. 2; H315: 5 % ≤ C < 15 % - Skin Corr 1A; H314 c ≥ 15%

Concentration: 15 - <30 %

acc. CLP (GHS): H314, Skin Corr. 1 B

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

Substance name: *phosphate buffer solution*

CAS No.: -

Substance rating: No criteria for classification or naming of chemical not required.

Formula: K/Na<sub>1-3</sub>H<sub>2-0</sub>PO<sub>4</sub>•xH<sub>2</sub>O

Concentration: 75 - <90 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.2.



# Safety Data Sheet

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REF: 931090

VISOCOLOR ECO Swimming pool (Chlorine + pH)

Page: 4/11

Printing date: 14.01.2026

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## 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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

#### 4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. ---

#### 4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences.

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

Rapid penetration and destruction of the skin. Especially in the heated form.  
Causes severe skin burns and eye damage.

### 4.3 Indication of any immediate medical attention and special treatment needed

**CORROSIVE DAMAGE:** After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTRESS ensure that the patient inhales oxygen. ---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### 5.1.1 Suitable 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.

#### 5.1.2 Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible.

### 5.3 Advice for firefighters

Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

### 5.4 Additional information

Danger for environment **only in the event of a large-scale leakage** or formation of hazardous substances.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

### 6.2 Environmental precautions

Should not be released into the environment.

**PBT:** not applicable

**vPvB:** not applicable



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# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 5/11
Printing date: 14.01.2026	Date of issue: 28.02.2025	Version: 2.4.2.32

## 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals.  
Clean any contaminated equipment and floors with plenty of water.  
Collect small amounts of leaked liquid and flush with water into drains.

## 6.4 Reference to other sections

see information in section 5.4,7,8 and 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12.1

**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. Use inbreakable container for transport of glass bottles.

### 7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls /personal protection

### 8.1 Control parameters

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

Chemical: *sulfuric acid* CAS No.: 7664-93-9

DNEL: [inh] 50 µg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.5 µg/L  
PNEC = Predicted No Effect Concentration

EU value: 0.1 e mg/m<sup>3</sup>  
TRGS 900 (DE): 0.1 E mg/m<sup>3</sup>  
E/e respirable

Short-term exposure factor: 1 (I), Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,1 e mg/m<sup>3</sup>

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); [TWA] 1 mg/m<sup>3</sup>  
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 1 mg/m<sup>3</sup>

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-term exposure limit related to a 15-minute period

OSHA: not listed

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

Chemical: *phosphate buffer solution* CAS No.: -

### 8.2 Exposure controls

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 Skin protection / 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 Eye / Face Protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection or face protection.



# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 6/11
Printing date: 14.01.2026	Date of issue: 28.02.2025	Version: 2.4.2.32

- 8.2.4 Skin protection**  
Recommended to avoid clothing damage, and to avoid contamination with these hazards.
- 8.2.5 Personal hygiene**  
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.
- 8.2.6 Thermal hazards**  
no data available
- 8.3 Limitation and monitoring of environmental exposure**  
Do not release product into environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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

- |   |                        |
|---|------------------------|
| a) State of aggregation:                      | liquid                 |
| b) Colour:                                    | slightly yellow        |
| c) Odor:                                      | odorless               |
| d) Melting point:                             | no data available      |
| e) Boiling point:                             | no data available      |
| f) Flammability:                              | no data available      |
| g) Explosive limits (lower / upper):          | no data available      |
| h) Flash point:                               | no data available      |
| i) Flashing temperature:                      | no data available      |
| j) Decomposition temperature:                 | no data available      |
| k) pH value:                                  | 0-1                    |
| l) Kinematic viscosity:                       | no data available      |
| m) Solubility in water:                       | no data available      |
| n) Dispersion coefficient (K <sub>ow</sub> ): | no data available      |
| o) Vapour pressure (20°C):                    | no data available      |
| p) Specific gravity:                          | 1,15 g/cm <sup>3</sup> |
| q) Relative vapour density (air=1):           | no data available      |
| r) Particle size:                             | no data available      |

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

- |   |                       |
|---|-----------------------|
| a) State of aggregation:                      | liquid                |
| b) Colour:                                    | colourless            |
| c) Odor:                                      | odorless              |
| d) Melting point:                             | no data available     |
| e) Boiling point:                             | no data available     |
| f) Flammability:                              | no data available     |
| g) Explosive limits (lower / upper):          | no data available     |
| h) Flash point:                               | no data available     |
| i) Flashing temperature:                      | no data available     |
| j) Decomposition temperature:                 | no data available     |
| k) pH value:                                  | 9                     |
| l) Kinematic viscosity:                       | no data available     |
| m) Solubility in water:                       | 0-100 %               |
| n) Dispersion coefficient (K <sub>ow</sub> ): | no data available     |
| o) Vapour pressure (20°C):                    | no data available     |
| p) Specific gravity:                          | 1,2 g/cm <sup>3</sup> |
| q) Relative vapour density (air=1):           | no data available     |
| r) Particle size:                             | no data available     |

### 9.2 Other information

- 9.2.1 Information on physical hazard classes**  
no data available



# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 7/11
Printing date: 14.01.2026	Date of issue: 28.02.2025	Version: 2.4.2.32

**9.2.2 Other safety-related parameters**

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

Substances are highly corrosive.

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

no further data available.

**10.2 Chemical stability**

no known instability.

**10.3 Possibility of hazardous reactions**

Can react violently with organic material. No further data available.

**10.4 Conditions to avoid**

No more required.

**10.5 Incompatible materials**

no additional data available

**10.6 Hazardous decomposition products**

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## SECTION 11: Toxicological information

**11.1 Information on the hazard classes according regulation (EC) 1272/2008**

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

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

Chemical:	<i>sulfuric acid</i>	CAS No.: 7664-93-9
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1 ppm	
Exposure Routes:	inhalation, ingestion, skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory system, teeth	
Symptoms:	irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;	
	dental erosion; eye, skin burns; dermatitis	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSCL: Deleterious Substance	
Japan ISHL:	listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)	
South Korea TCCA:	Accident Precaution Chemical Yes	
Korea Exist.Chem.Inventory:	KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.	
LD50 orl rat :	2140 mg/kg	
LC50 ihl mus :	0,85 mg/L/4H	
TRGS 905 (DE):	Kat 4	

Chemical:	<i>N,N-Diethyl-1,4-phenylene diammonium sulfate</i>	CAS No.: 6283-63-2
TSCA Inventory:	listed (CAS 6065-27-6)	California Proposition 65 List: not listed
Australia NICNAS:	not listed	Canada CEPA 1999: not listed
Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
Japan ISHL:	not listed	
South Korea TCCA:	not listed	
LD50 orl rat :	497 mg/kg	

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

Chemical:	<i>phosphate buffer solution</i>	CAS No.: -
TSCA Inventory:	all listed	
Korea Exist.Chem.Inventory:	listed	



# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 8/11
Printing date: 14.01.2026	Date of issue: 28.02.2025	Version: 2.4.2.32

## 11.2 Other hazards

**Possible endocrine disrupting effects**  
no data available

**Other information**  
no additional data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

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

Substance name: *sulfuric acid* CAS-Nr.: 7664-93-9

Do not release into the environment.

PNEC (fresh water): 2.5 µg/L  
PNEC = Predicted No Effect Concentration = concentration at which no effect on the environment is expected

LC50 fish/96h: [NOEC, 65d] 25 µg/L

EC50 daphnia/48h: 100 mg/L

EC10 pseudomonas putida/16h: [72h] 100 mg/L

Water hazard class (DE): 1 WGK No.: 0182

Storage class (VCI): 8 B

Substance name: *N,N-Diethyl-1,4-phenylene diammonium sulfate* CAS-Nr.: 6283-63-2

Water hazard class (DE): 3

Storage class (VCI): 12-13

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

Substance name: *phosphate buffer solution* CAS-Nr.: -

Water hazard class (DE): 1

Storage class (VCI): 12

### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

### 12.4 Mobility in soil

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

no data available

### 12.7 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Empty containers of corrosive reagents prior to disposal, rinse with water.



# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 9/11
Printing date: 14.01.2026	Date of issue: 28.02.2025	Version: 2.4.2.32

## 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
- 14.7 Carriage in bulk by sea in accordance with IMO instruments**  
Not applicable.

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020  
 Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017  
 TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017  
 TRGS 220, National aspects when preparing safety data sheets, Jan 2017  
 TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017  
 TRGS 401, Skin contact hazard - identification, assessment, action, Jun 2008, status: Feb 2011  
 BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012  
 TRGS 500, Protective measures, Mai 2008  
 TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015  
 Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016  
 MN leaflet/instructions for use, also at [www.mn-net.com](http://www.mn-net.com)  
 If necessary, observe other country-specific regulations.
- 15.2 Chemical safety assessment**  
no data available

## SECTION 16: Other information

- 16.1 Changes compared to the last version**  
Between versions 2.4.2.32 and 2.2.2.2 following changes were applied: - 2 product component data corrected - 30 substance data corrected
- 16.2 List of H and P phrases**
  - 16.2.1 List of relevant H phrases**

H	Between versions 2.4.2.32 and 2.2.2.2 following changes were applied: - 2 product component data corrected - 30 substance data corrected
H314	Causes severe skin burns and eye damage.
  - 16.2.2 List of relevant P phrases**

P260sh	Do not breathe dust/vapours.
P264	Wash hands thoroughly after handling.
P280sh	Wear protective gloves/eye protection.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container to regulated waste treatment.
- 16.3 Recommended restriction on use**  
 Only for professional user.  
 Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!  
 Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)!  
 An individual package of this product or test kit has a moderate hazardous potential.
- 16.4 Sources of key data**  
 KÜHN, BIRETT, Leaflets on hazardous materials, 2021  
 Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres  
 SUVA .CH, limit values in the air at work 2009, revised on 01/2009  
 Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)  
 Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG



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# Safety Data Sheet

## according to Regulations REACH 1907/2006/EC

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 10/11
Printing date: 14.01.2026	Date of issue: 28.02.2025	Version: 2.4.2.32

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)  
 Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)  
 Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)  
 Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)  
 Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)  
 TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019  
 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)  
 Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG  
 Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)  
 Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)  
 Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)  
 Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

### revisions/updates

*Reason for revision:* 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary  
 2014-04 adjustment according Regulation 487/2013/EU  
 2016-03 adjustment according Regulation 1221/2015/EU  
  
 2017-11 adjustment according the ECHA registration dossier  
 2022-11 adjustment according Regulation 878/2020/EU

### 16.5 Further information

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### 16.6 Legend / Abbreviations

acc: according  
 ADR: Convention concerning the International Carriage of Dangerous Goods by Road  
 Act: acute  
 BAT: biological workplace tolerance value  
 CAO: Cargo Aircraft Only  
 Carc: carcinogen  
 CAS: Chemical Abstracts Service  
 CLP: Classification, Labelling and Packaging regulation  
 CMR: carcinogen, mutagen, reproduction toxic  
 Corr: corrosive  
 COD: chemical oxigen demand  
 CSCL: Chemical Substance Control Law (Jp)  
 Dam: damage  
 DNEL: Derived No-Effect Level (for workers)  
 derm: dermal  
 dog: dog  
 EC10: Concentration causing a toxic effect in 10% of the test organisms  
 EC: European Community  
 EC-Nr: Substance number of the EC substance inventory  
 EmS: Guide to accident management measures on ships  
 EU: European Union  
 fish: fish (not spezified)  
 GHS: Global Harmonized System of Classification and Labeling of Chemicals  
 gpg: guinea pig  
 ICAO: International Civil Aviation Organization  
 ihl: inhaled  
 IMDG: International Maritime Dangerous Goods Code  
 intrav: intravenous  
 ipt: intraperitoneal  
 ISHL: Industrial Safety and Health Law (Jp)  
 LC50: letale concentration 50%  
 LD50: letale dosis 50%  
 leuciscus idus: fisch, ide, orfe  
 MAK: maximum workplace concentration



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- Met: Metall
- mus: mouse
- Muta: mutagen
- NIOSH: National Institute for Occupational Safety and Health (US)
- NRD: Non-rapidly degradable
- onchorhynchus mykiss: fish, rainbow trout
- orl: oral
- OSHA: Occupational Safety and Health Administration
- PAX: transport on passenger planes allowed
- PBT: persistent, bioaccumulating, toxic substance
- pH: pH value
- pimephales promelas: fish, fathead minnow
- PNEC: Predicted No Effect Concentration
- PROC 15: Process category 'for laboratory use'
- PRTR: Law for PRTR and Promotion of Chemical Management (Jp)
- PVC: polyvinyl chloride
- quail: bird, quail
- rat: rat
- rbt: rabbit
- RD: rapidly degradable
- RE: repeated
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- REF: item number, reference number
- Reg.No.: rRegistration number
- Repr: harmful to reproduction
- Resp: respiratory
- RIP: REACH Implementations Projects
- scu: sub cutan
- SDS: safety data sheet
- Sens: sensitisation
- STEL: short term exposure limit
- STOT: Specific Target Organ Toxicity
- SVHC: Substance of Very High Concern
- t/a: tons per year
- TCCA: Toxic Chemicals Control Act (S. Korea)
- Tox: toxic
- TSCA: The Toxic Substances Control Act (US)
- TWA: time weighted average
- TRGS: technical regulations (DE)
- vPvB: very persistent, very bioaccumulating substance

## 16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

