# **MACHEREY-NAGEL**



# **Safety Data Sheet**

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

REF: 931084	VISOCOLOR ECO Phosphate	Page: 1/9
Printing date: 01.10.2019	Date of issue: 17.04.2019	

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

-		
1.1	Product identifier	
	REF	931084
	Product name	VISOCOLOR ECO Phosphate
	REACH Registration number(s): A registration number for the subsi the substance or its use is exclude	see SECTION 3.1/3.2 or ance(s) does not exist because the annual tonnage does not require registration or d from registration.
		1 x 25 mL PO <sub>4</sub> -1 1 x 25 mL PO <sub>4</sub> -2
1.2	Relevant identified uses	e substance or mixture and uses advised against
	Product for analytical use. Exposure Scenario Classific The exposure scenario is in Uses advised against	ation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 egrated into sections 1-16.
	not described	
1.3	Details of the supplier of the s	afety data sheet
	Manufactured by: MACHEREY-NAGEL GmbH & Co. Neumann-Neander-Str. 6-8, 52355	
	Tel.: +49 2421 969 0	E-mail: sds@mn-net.com (msds@mn-net.com)
1.4	Emergency telephone number	
	Outside Germany (DE): Call your re DE: Gemeinsames Giftinformations	gional Poisons Information Service or call local Life Saving Service. zentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730
	You find our current versions of SDS (22 lan	guages) in Internet: http://www.mn-net.com/SDS
SECT	ION 2: Hazard identificatio	ı

#### 2.0 Classification of the complete product

	GHS05 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
EUH031	031 not defined
H315	Skin Irrit. 2
H318	Eye Dam. 1
H319	Eye Irrit. 2

#### 2.1 Classification of the substance or mixture

25 mL PO<sub>4</sub> -1





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Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H315 H319	Skin Irrit. 2 Eye Irrit. 2	
25 mL PO4 -2		
	GHS05	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
EUH031 H318	031 not defined Eye Dam. 1	

#### 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).

### 25 mL PO<sub>4</sub> -1



Signal word: WARNING

### 25 mL PO<sub>4</sub> -2



Signal word: DANGER

H318 Causes serious eye damage.

P280sh, P305+351+338, P310 Wear protective gloves/eye protection. 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.

#### 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. 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

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.



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	Informa	ation pertaining to pa	articular risks to the environme	nt		
	PBT: vPvB:	not applicable not applicable				
		<b>nazards</b> is an odor intensive re	agent			
SECT			ormation on ingredie	onts		
8.1		ces or 3.2 Mixtur	U U			
	25 mL	•	nium heptamolybdate No criteria for classification or naming of H24 Mo7 N <sub>6</sub> O24 hexaammonium heptamolybda listed (CAS 11098-84-3) 01-2119498057-28-xxxx		CAS No.: 12054-85-2	
		EC No.: RTECS:	234-722-4 QA5076000 / QA4900000	MFCD:	00167059	
		KE No.: Concentration:	not listed 0,5 - <2 %	Correlation facto	or: x 0.58 (= %Mo)	
		The classification refers t acc. CLP (GHS):	o weight percent of the metal (according t The criteria for classification are not ful	•	2/EC Annex VI, 1.1.3.2 Note 1)	
		Classification: Formula: TSCA Inventory:	<i>ic acid</i> H314, Skin Corr. 1B H <sub>2</sub> SO <sub>4</sub> (•H <sub>2</sub> O) listed		CAS No.: 7664-93-9	
		REACH Reg. No.: EC No.: RTECS:	01-2119458838-20-xxxx 231-639-5 WS5600000	Indice No .:	016-020-00-8	
		KE No.: Concentration: acc. CLP (GHS):	KE-32570, >10% Toxic 97-1-4( 5 - <15 % H315, Skin Irrit. 2, H319, Eye I	,	em.	
	25 mL	PO 4 -2				
		Chemical: sodiul Classification: Formula: Pseudonym: TSCA Inventory:	m disulfite H302, Acute Tox. 4 oral, H318, Na <sub>2</sub> O <sub>5</sub> S <sub>2</sub> sodium metabisulphite, sodium listed		CAS No.: 7681-57-4 , 031 not defined	
		REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	01-2119531326-45-xxxx 231-673-0 UX8225000 KE-12701 10 - <25 % H318, Eye Dam. 1, EUH031, 0	Indice No.: 31 not defined	016-063-00-2	
	Domorko					
8.3	Remarks		added with water [CAS No. 7732	0 19 51 to 1000/		

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

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1.1.2	bottle, eye douche or runnin	nse thoroughly under running water with the eyelid wide open for min. 1 g water (protect intact eye). Before (if possible) apply eye drops Proxym ful. Further treatment to be carried out by an eye specialist.	0 minutes with eye washing etacaine 0.5%, if the opening
1.1.3	After INHALATION of vapor After inhalation of foam or va	<b>urs</b> apour fresh air should be inhaled. Keep airways free	
4.1.4	After ORAL Intake After oral intake lots of wate	should be drunk after it has been ingested	
4.2	Most important sympton	is and effects, both acute and delayed	
4.3	Indication of any immediate medical attention and special treatment needed After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chen Further treatment must to be carried out by an eye specialist		Name the corrosive chemical.
SECI	TION 5: Firefighting me	asures	
5.1		the fire classification, and, if applicable, a fire blanket must be available FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be us	
5.2		rom the substance or mixture stic vapour-air mixtures possible	
5.3	Advice for firefighters No, for listed product. Product pa	ckage burns like paper or plastic.	
5.4	Additional information		
J.4			

### **SECTION 6: Accidental release measures**

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

Do not breathe vapours. 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**

not necessary

#### 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

### 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 The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 8B Water hazard class (DE): 1
- 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.



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SEC	TION 8: Exposure contr	ols/personal protecti	on	
8.1	<b>Control parameters</b>			
	<b>25 mL PO</b> 4 <b>-1</b> Chemical: ammonium he TRGS 900 (DE):	p <i>tamolybdate</i> [Mo] 5 E mg/m³ E/e respirable	CAS No.: 12054-	85-2
	SUVA(CH) MAK value:	[Mo] 5 e mg/m <sup>3</sup>		
	Chemical: <i>sulfuric acid</i> DNEL: DNEL = Derived No-Effect	[inh] 50 µg/m³ Level (for workers)	CAS No.: 7664-9	3-9
	PNEC(fresh water) : PNEC = Predicted No Effe			
	EU value: TRGS 900 (DE):	0.1 e mg/m <sup>3</sup> 0.1 E mg/m <sup>3</sup> E/e respirable		
		atory sensitizable (Sa), skin sensitizable (	Sh), teratogenic (Z) not securely excluded / (Y) certainly	/ excluded
		age to a reference period of 8 hours, [STE	bC) List Yes (Known to be a human carcinog EL] Short-term exposure limit related to a 15-minute per	en); [TWA] 1 mg/m³ <sup>iod</sup>
	OSHA:	[TWA] 1 mg/m <sup>3</sup>		
	<b>25 mL PO4 -2</b> Chemical: sodium disulfit DNEL: DNEL = Derived No-Effect	[inh] 225 mg/m³	CAS No.: 7681-5	7-4
	TRGS 900 (DE): SUVA(CH) MAK value: NIOSH:	- E/e respirable 5 e mg/m <sup>3</sup> [TWA] 5 mg/m <sup>3</sup>		
	[TWA] Time-weighted aver OSHA:	age to a reference period of 8 hours, [STE none	EL] Short-term exposure limit related to a 15-minute peri	iod
8.2	Exposure controls Good ventilation and extraction sy level of cleanliness must be main		to chemicals with floor drainage and washing	g facilities. The highest
8.2.1	<b>Respiratory protection</b> No additional recommendation	·		
8.2.2		4 (permeation time >30 min - lev chemical resistant latex gloves w	el 2), consist of PVC, natural latex, Neopren, ith code EN 374-3 level 1.	, or Nitril (f.ex. from Ansell
8.2.3	<b>Eye protection</b> Yes, safety glasses accordin	g EN 166 with integrated side shi	elds or wrap-around protection or face protection	ction.
8.2.4	Skin protection Recommended to avoid cont	amination with these hazards.		
8.2.5	with the skin, eyes and clothi	ng. Rinse any clothing on which t	work areas and at outdoor workplaces is prol he substance has been spilled, and soak it ir re eating, and then apply protective skin crea	n water. Wash hands
SEC	TION 9: Physical and ch	emical properties		
9.1	Information on basic phy	sical and chemical prope	erties	
	<b>25 mL PO</b> 4 <b>-1</b> Appearance: liquid pH:	Colour: colourless 1-2	Odor: odorless	

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1,07 g/cm3

Specific gravity:

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25 mL PO<sub>4</sub> -2 Appearance: liquid pH:

Colour: colourless 6-7

Odor: sulfuric

#### 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

### 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 No further data available.
- 10.4 Conditions to avoid Not necessary. ---

#### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

#### 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 toxicological effects

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

### 25 mL PO<sub>4</sub> -1

Chemical:	ammonium heptamolybdate	CAS No.: 12054-85-2
TSCA Inventory:	listed (CAS 11098-84-3)	
Japan ISHL:	listed ≥1,0%/≥0,1%,	
Korea Exist.Chem.lr	nventory: not listed	

	furic acid	CAS No.: 7664-93-9
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1 ppm	
Exposure Routes:	, 0	on, skin and/or eye contact
Target Organs:		atory system, teeth
Symptoms:	irritation eyes, ski	n, 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 F	PDSCL: Deleterious Substance
Japan ISHL:	listed ≥1,0%/≥1,0%	%, Article 57-2 (SDS required)
South Korea TCCA:	Accident Precaution	on Chemical Yes
Korea Exist.Chem.Invent	ory: KE-32570, >10%	Toxic 97-1-405, Acc. Precaution Chem.
LD50 <sub>orl rat</sub> :	2140 mg/kg	
LC50 <sub>ibl rat</sub> :	[8h] 600/ [4h] 850	ma/m³
	[. ] []	<b>J</b> .
TRGS 905 (DE):	Kat 4	

25 mL PO<sub>4</sub> -2

Chemical:	sodium disulfite	CAS No.: 7681-57-4
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, ingesti	on, skin and/or eye contact
Target Organs:	Eyes, skin, respira	atory system
Symptoms:	irritation eyes, ski	n, mucous membrane
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	not listed, Japan I	PDSCL: not listed



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Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required) South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-12701 1540 mg/kg LD50<sub>orl rat</sub>: LD50<sub>drm rat</sub>: 2000 mg/kg

## **SECTION 12: Ecological information**

25 mL PO<sub>4</sub> -1

#### 12.1 Toxicity

Following information is valid for pure substances.

Chemical: Water hazard cl		neptamolybdate 1 WGK No.: 0637	CAS No.: 12054-85-2
Storage class (\	( )	12-13	
Chemical: PNEC(fresh water PNEC = Predicted N	<i>sulfuric acid</i> ) : lo Effected Concentrati	2.5 µg/L on	CAS No.: 7664-93-9
LC50 <sub>fish/96h</sub> : EC50 <sub>daphnia/48h</sub> : EC10 <sub>pseudomonas putita/16h</sub> : Water hazard class (DE):		[NOEC, 65d] 25 µg/L 100 mg/L [72h] 100 mg/L 1 WGK No.: 0182	
Storage class (\	/CI):	8 B	
25 mL PO <sub>4</sub> -2			
Chemical: LC50 <sub>fish/96h</sub> :	sodium disul	fite 150-220 mg/L	CAS No.: 7681-57-4

WGK No.: 1169

89 mg/L

48 mg/L

1

8 B

#### 12.2 Persistence and degradability

EC50daphnia/48h:

IC50scenedesmus quadricauda/72h :

Water hazard class (DE):

Storage class (VCI):

- 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

### 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.



DE/international:

Tel.:

Fax:

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ECTION 14: Tra	nspor	t inf	ormation				
14.1. UN number: 14.3. Class: Road transport			UN proper shipping Packing group:	g name: Chemical Kit I			
Classification code: Limited Quantity:	M11 acc. AD	R 3.3	Tunnel restriction code: E 3.3.1/251: see LQ in Alternative declaration for transportation				
<i>Air transport</i> PAX:	960		max. weight PAX:	10 KG			
CAO:	960		max. weight CAO:	10 KG			
Maritime transport							
or	class 8 II	on for		A 0 mL/∑≤500 mL) = ADR/ IATA E2			
EmS: Or use Alternative of UN No.: (see below) or 14.1 UN number:	leclaratic class 8 II 3264 pping na	on for , Exce me: C	transportation: epted Quantities (≤3				
EmS: Or use Alternative of UN No.: (see below) or 14.1 UN number: 14.2 UN proper shi 14.3 Class: Road transport	leclaratic class 8 II 3264 pping na 8 1	on for , Exce me: C	transportation: epted Quantities (≤3 Corrosive liquid, acio	0 mL/∑≤500 mL) = ADR/ IATA E2			
EmS: Or use Alternative of UN No.: (see below) or 14.1 UN number: 14.2 UN proper shi 14.3 Class: <i>Road transport</i> Classification code: Limited Quantity: Excepted Quantity:	leclaratic class 8 II 3264 pping na	on for , Exce me: C	transportation: epted Quantities (≤3 Corrosive liquid, acio	0 mL/∑≤500 mL) = ADR/ IATA E2 dic, inorganic, n.o.s. (sulfuric acid, sodium disulfite solution)			
EmS: Or use Alternative of UN No.: (see below) or 14.1 UN number: 14.2 UN proper shi 14.3 Class: Road transport Classification code: Limited Quantity:	leclaratic class 8 II 3264 pping na 8 1 C1 1 L	on for , Exce me: C	transportation: epted Quantities (≤3 Corrosive liquid, acic Packing group: II	0 mL/∑≤500 mL) = ADR/ IATA E2 dic, inorganic, n.o.s. (sulfuric acid, sodium disulfite solution)			
EmS: Or use Alternative of UN No.: (see below) or 14.1 UN number: 14.2 UN proper shi 14.3 Class: <i>Road transport</i> Classification code: Limited Quantity: Excepted Quantity: <i>Air transport</i>	leclaratic class 8 II 3264 pping na 8 1 C1 1 L E 2	on for , Exce me: C	transportation: epted Quantities (≤3 Corrosive liquid, acic Packing group: II Tunnel restriction cc	0 mL/∑≤500 mL) = ADR/ IATA E2 dic, inorganic, n.o.s. (sulfuric acid, sodium disulfite solution) ode: E			

14.6 Special precautions for user not necessary

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

## 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.		
	H318	Causes serious eye damage.		
	H319	Causes serious eye irritation.		
	EUH031	Contact with acids liberates toxic gas.		

#### 16.1.2 List of relevant P phrases Do not breathe vapours. P260D P280sh Wear protective gloves/eye protection. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Immediately call a POISON CENTER/doctor.

#### 16.2 Training advice

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.

#### 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 Further information

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#### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2018 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

