MACHEREY-NAGEL



Safety Data Sheet

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

REF: 920080	VISOCOLOR HE Phosphate (DEV)	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
	REF920080Product nameVISOCOLOR HE Phosphate (DEV)
	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 5 g PO ₄ -1 1 x 80 mL PO ₄ -2
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
1.4	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 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: http://www.mn-net.com/SDS
SEC	TION 2: Hazard identification
2.0	Classification of the complete product

	GHS05
Signal word	DANGER
Hazard identification	Hazard classes/categories
H314	Skin Corr. 1A

2.1 Classification of the substance or mixture

5 g PO₄ -1

Do not need labelling as hazardous

No hazard class

Signal word

80 mL PO₄ -2

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g		

	GHS05
Signal word	DANGER
Hazard identification	Hazard classes/categories
H314	Skin Corr. 1A

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).

5 g PO₄ -1

Do not need labelling as hazardous Signal word: -

80 mL PO₄ -2



Signal word: DANGER

H314 Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours. 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.

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 Avoid contact of substance/mixture to environment. PBT: not applicable not applicable vPvB: Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

5 g PO₄ -1



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

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

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

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REF: 920080	VISOCOLOR HE	Phosphate (DEV)		Page: 3
Printing date: 01.10.2019	Date of issue: 17.	04.2019		
Chemical: L(+))-ascorbic acid		CAS No.: 50-81-7	
Classification: Formula: Pseudonym:	No criteria for classification or naming c $C_6 H_8 O_6$ vitamin C	of chemical not required.		
TSCA Inventory:	listed			
REACH Reg. No.: EC No.:	exempt, Annex IV 200-066-2			
RTECS:	CI7650000	MFCD:	00064328	
KE No.: Concentration:	KE-01947 90 - <100 %			
acc. CLP (GHS):	The criteria for classification are not fulf	filled.		
80 mL PO4 -2				
	monium heptamolybdate		CAS No.: 12054-85-2	
Classification: Formula:	No criteria for classification or naming c	of chemical not required.		
Pseudonym:	H ₂₄ Mo ₇ N ₆ O ₂₄ hexaammonium heptamolybdat	te		
TSCA Inventory:	listed (CAS 11098-84-3)			
REACH Reg. No.:	· · · · · · · · · · · · · · · · · · ·			
EC No.:	234-722-4			
RTECS:	QA5076000 / QA4900000	MFCD:	00167059	
KE No.:	not listed			
Concentration:	2 - <5 %		or: x 0.58 (= %Mo)	
The classification refer	s to weight percent of the metal (according to	o CLP Regulation 2008/1272	2/EC Annex VI, 1.1.3.2 Note 1)	
acc. CLP (GHS):	The criteria for classification are not fulf	filled.		
	uric 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.:		Indian Na .	010 000 00 8	
EC No.:	231-639-5	Indice No.:	016-020-00-8	
RTECS: KE No.:	WS5600000 KE-32570, >10% Toxic 97-1-40)5 Acc Procention Ch	lom	
Concentration:	30 - <51 %	D, ACC. FIECAULION CO		
acc. CLP (GHS):	H314, Skin Corr. 1B			
acc. OLF (GH3).				

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 16.1

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 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. ---



 MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany

 DE/international:
 CH:
 FR:

 Tel.:
 +49 24 21 969-0
 Tel.:
 +41 62 388 55 00
 Tel.:
 +33 388 68 22 68

- ISO 3001 сектичес
 Tel.:
 +49 24 21 969-0
 Tel.:

 Усектичес
 Fax:
 +49 24 21 969-199
 Fax:

 Version: M V 4.10.1
 E-mail: info@mn-net.com
 E-mail
- 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 www.mn-net.com

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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

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 DISTREES ensure that the patient inhales oxygen. ---

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. 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

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

see information in section 5.4 ---

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): Water hazard class (DE): 8B 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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Tel.: +49 24 21 969-0 ISO 9001 CERTIFIED Fax: +49 24 21 969-199

Version: M V 4.10.1 E-mail: info@mn-net.com

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

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SEC	TION 8: Exposure co	ntrols/personal protection	on	
8.1	Control parameters			
	5 g PO ₄ -1 Chemical: <i>L</i> (+)-ascor	bic acid	CAS No.: 50-81-7	
	80 mL PO 4 -2 Chemical: <i>ammoniun</i> TRGS 900 (DE):	n <i>heptamolybdate</i> [Mo] 5 E mg/m³ E/e respirable	CAS No.: 12054-85-2	
	SUVA(CH) MAK value:	[Mo] 5 e mg/m ³		
	Chemical: <i>sulfuric aci</i> DNEL: DNEL = Derived No-E	d [inh] 50 μg/m³ ffect Level (for workers)	CAS No.: 7664-93-9	
	PNEC _(fresh water) : PNEC = Predicted No	2.5 μg/L Effected Concentration		
	EU value: TRGS 900 (DE):	0.1 e mg/m³ 0.1 E mg/m³ E/e respirable		
	Short-term exposure fact skin resorptive (H), re		n), teratogenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted	0,1 e mg/m³ NTP Report on Carcinogens (Ro0 average to a reference period of 8 hours, [STEL	C) List Yes (Known to be a human carcinogen); [TWA]] Short-term exposure limit related to a 15-minute period	1 mg/m³
	OSHA:	[TWA] 1 mg/m ³		

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 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 protection

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

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

5 g PO₄ -1

Melting point: Specific gravity:

pH:

Colour: colourless Appearance: powder (solid) 6 191 instable °C 1,65 sol. g/cm3 0-25 % Flashing temperature: 380 °C

Odor: odorless

80 mL PO₄ -2 Appearance: liquid pH: Specific gravity:

Solubility in water:

Solubility in water:

Colour: colourless 0-1 1,32 g/cm³ 0-100 %

Odor: odorless

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

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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

Can react violently with organic material. 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.

CAS No.: 50-81-7

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.

5 g PO₄ -1

Chemical:	L(+)-ascorbic acid
TSCA Inventory:	listed
Korea Exist.Chem.Inv	entory: KE-01947
LD50 _{orl rat} :	11900 mg/kg
LD50 _{ivn mus} :	518 mg/kg

Kat 4

80 mL PO₄ -2

TRGS 905 (DE):

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.In	ventory: not listed	

Chemical: si	ulfuric acid	CAS No.: 7664-93-9
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1 ppm	
Exposure Routes:	inhalation, inge	stion, skin and/or eye contact
Target Organs:	Eyes, skin, res	piratory system, teeth
Symptoms:	irritation eyes,	skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;
dental erosion; eye, ski	n burns; dermatitis	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:		n PDSCL: Deleterious Substance
Japan ISHL:	listed ≥1,0%/≥	I,0%, Article 57-2 (SDS required)
South Korea TCCA:		ution Chemical Yes
	ntory: KE-32570, >10	% Toxic 97-1-405, Acc. Precaution Chem.
LD50 _{orl rat} :	2140 mg/kg	
LC50 _{ihl rat} :	[8h] 600/ [4h] 8	50 mg/m³

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SECI	ION 12: Ecological informa	tion	
12.1	Toxicity Following information is valid for pure	substances.	
	5 g PO₄ -1 Chemical: L(+)-ascou Water hazard class (DE): Storage class (VCI):		CAS No.: 50-81-7
	80 mL PO ₄ -2 Chemical: ammoniun Water hazard class (DE): Storage class (VCI):	m heptamolybdate 1 WGK No.: 0637 12-13	CAS No.: 12054-85-2
	Chemical: sulfuric ac Avoid contact of substance/mixt PNEC(fresh water) : PNEC = Predicted No Effected Concent	ture to environment.	CAS No.: 7664-93-9
	LC50fish/96h : EC50 _{daphnia} /48h : EC10 _{pseudomonas putita/16h :} 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	
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 asse no data available	ssment	
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.

SECTION 14: Transport information

14.1. UN number: 3316 14.3. Class: 9 14.2. UN proper shipping name: Chemical Kit 14.4. Packing group: Ĩ Road transport Classification code: M11 Tunnel restriction code: Е Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Air transport PAX: 960 max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG Maritime transport F-A, S-P Storage category: А EmS:

Or use Alternative declaration for transportation:

14.1 UN number: 14.3 Class:	3264 8	UN proper shipping name: Packing group: II	Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid solution)
Road transport Classification code:	C1		
Limited Quantity:	1 L	Tunnel restriction code:	E



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Excepted Quantity: Air transport	E 2		
PAX:	851	max. weight PAX:	1 L
CAO:	855	max. weight CAO:	30 L
Maritime transport			
EmS:	F-A, S-B	Storage category:	В

14.5 **Environmental hazards**

...

- -

none, contains only small quantities of hazardous substances

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

H314 Causes severe skin burns and eye damage.

List of valor and D when a s 16.1.2

List of relevant P phrases	
P260sh	Do not breathe dust/vapours.
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.

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

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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+33 388 68 22 68 +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

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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 453/2013/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

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MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 +49 24 21 969-199 Fax: Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Version: M V 4.10.1 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com 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

www.mn-net.com