MACHEREY-NAGEL



Safety Data Sheet

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

REF: 920082	VISOCOLOR HE Phosphate	Page: 1/12
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10

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

1.1	Product identifier REF 920082 no data available VISOCOLOR HE Phosphate 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 100 mL P-1 UFI: J1VT-23HC-520D-55HQ 1 x 100 mL P-2 UFI: C6ST-C3R8-2201-AW9K
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
1.4	Emergency telephone number
	Outside Germany (DE): Call your regional Poisons Information Service or call local Life Savido Service and the
	DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730, <https: www.ggiz-erfurt.de=""> You find our current versions of SDS in Internet: <http: sds<="" td="" www.mn-net.com=""> Karlsruhe, Gemany 449 721 5606 0 sicherheit@carlroth.de</http:></https:>
0=0=	sicherner sicherner

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
Hazard identification H290 H314 H318	Hazard classes/categories Met. Corr. 1 Skin Corr. 1B Eye Dam. 1

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

100 mL P-1





MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

- FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
- US Tel.: +1 888 321 62 24 sales-us@mn-net.com



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

REF: 920082	VISOCOLOR HE Phosphate	Page: 2/12
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H290 H314	Met. Corr. 1 Skin Corr. 1B	
100 mL P-2		
	GHS05	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
EUH031 H318	031 not defined Eye Dam. 1	

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 identificator(s) (EU 1272/2008 Annex I - 1.5.1.2). Metal corrosive solutions **do not have to** be labelled with GHS symbol, signal word, H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2.1.3).

100 mL P-1



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.

100 mL P-2



Signal word: DANGER

Label elements of the complete product



Signal word: DANGER H314 Causes severe skin burns and eye damage. P260sh, P280sh, P303+361+353, P305+351+338, P310



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

Software: M2 V 6.0.20.60



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

REF: 920082	VISOCOLOR HE Phosphate	Page: 3/12
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10

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/r	nixture to environment.
PBT:	not applicable
vPvB:	not applicable

Possible endocrine disrupting effects

no data available

Other hazards

Contains an odor intensive reagent.

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

100 mL P-1

) mL	P-1			
	Substance name: CAS No.:	ammonium heptamolybdate 12054-85-2		
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: The classification refers to	No criteria for classification or naming of cher H $_{24}$ Mo $_7$ N $_6$ O $_{24}$ Ammoniummolybdat 01-2119498057-28-xxxx 234-722-4 2 - <5 % the weight percentage of the metal (according	Correlation factor: x 0).58 (= %Mo) 2/EG Annex VI, 1.1.3.2 Note 1)
	acc. CLP (GHS): Substance name: CAS No.:	The criteria for classification are not fulfilled. <i>sulfuric acid</i> 7664-93-9		
	Substance rating: Formula: REACH Reg. No.: EC No.: Specific concentration Concentration: acc. CLP (GHS):	15 - <30 %	Indice No.: ≥ 15%	1 016-020-00-8
) mL	P-2 Substance name: CAS No.:	sodium disulfite 7681-57-4		
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	H302, Acute Tox. 4 oral, H318, Eye Na ₂ O ₅ S ₂ Disulfit 01-2119531326-45-xxxx 231-673-0 10 - <25 % H318, Eye Dam. 1, EUH031, 031 nc	Indice No.:	not defined 016-063-00-2

3.3 Remarks

100

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.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



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

REF: 920082	VISOCOLOR HE Phosphate	Page: 4/12
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10

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 DISTREES 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.



DE Tel.: +49 24 21 969-0 info@mn-net.com

- CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
- FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com



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

REF: 920082		VISOCOLOR HE P		Page: 5/12
Printin	g date: 22.11.2022	Date of issue: 27.09	.2022	Version: 2.2.2.10
6.2				
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			
SEC	FION 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 sto	Conditions for safe storage, including any incompatibilities		
	Safe storage is guaranteed in Storage class (VCI): Water hazard class (DE):	he original packaging . Storage class ((8B 1	German chemical industry): see chapte	er 12.1
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.			
SEC	FION 8: Exposure con	trols /personal protectio	n	
8.1 Control parameters				
	100 mL P-1 Chemical: ammonium TRGS 900 (DE):	heptamolybdate [Mo] 5 E mg/m³ E/e respirable	CAS No.: 120	54-85-2
	SUVA(CH) MAK value:	[Mo] 5 e mg/m ³		
	Chemical: sulfuric aci	j Final 50 vertera	CAS No.: 766	4-93-9

100 mL P-1		
Chemical: ammonium h	eptamolybdate	CAS No.: 12054-85-2
TRGS 900 (DE):	[Mo] 5 E mg/m ³ E/e respirable	
SUVA(CH) MAK value:	[Mo] 5 e mg/m³	
Chemical: sulfuric acid		CAS No.: 7664-93-9
DNEL: DNEL = Derived No-Effect	[inh] 50 µg/m³ t Level (for workers)	
PNEC (fresh water): PNEC = Predicted No Effe	2.5 μg/L ected Concentration	
EU value:	0.1 e mg/m ³	
TRGS 900 (DE):	0.1 E mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respir	1 (I), Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not secur	ely excluded / (Y) certainly excluded
SUVA(CH) MAK value:	0,1 e mg/m ³	
NIOSH:	NTP Report on Carcinogens (RoC) List Yes (Known to rage to a reference period of 8 hours, [STEL] Short-term exposure limit	be a human carcinogen); [TWA] 1 mg/m ³ t related to a 15-minute period
OSHA:	[TWA] 1 mg/m³	
100 mL P-2		
Chemical: sodium disult	ïte	CAS No.: 7681-57-4
DNEL:	[inh] 225 mg/m ³	
DNEL = Derived No-Effect	t Level (for workers)	
TRGS 900 (DE):	-	

TRGS 900 (DE): E/e respirable SUVA(CH) MAK value: 5 e mg/m³ NIOSH: [TWA] 5 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: none



MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com



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

REF: 920082		VISOCOLOR HE Phosphate	Page: 6/12
Printin	g date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10
8.2	Exposure controls		
	Good ventilation and extraction s level of cleanliness must be main	ystem in the room, floor resistant to chemicals with floor drainage tained at the workplace.	and washing facilities. The highest
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.		
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		
3.3	Limitation and monitorin	g of environmental exposure	
	Do not release product into envir	onment	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

100 mL P-1

a) State of aggregation:	
b) Colour:	colourless
c) Odor:	red
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
 Kinematic viscosity: 	no data available
m) Solubility in water:	0-100 %
n) Dispersion coefficient (o/w) :	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1,21 g/cm³
q) Relative vapour density _(air=1) :	no data available
r) Particle size:	no data available

100 mL P-2

a) State of aggregation:	
b) Colour:	colourless
c) Odor:	red
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:	5-7
I) Kinematic viscosity:	no data available
m) Solubility in water:	0-100 %
n) Dispersion coefficient (o/w)	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available



Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

- FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
- US Tel.: +1 888 321 62 24 sales-us@mn-net.com

MACHEREY-NAGEL



Safety Data Sheet

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

REF: 920082	VISOCOLOR HE Phosphate	Page: 7/12
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10

9.2 Other information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups** 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.

-		-	
100 mL P-1 Chemical: TSCA Inventory: Japan ISHL: Korea Exist.Chem.Inv LD50 _{orl rat} : LD50 _{ihl rat} :	nium heptamolybdate listed (CAS 11098-84 listed ≥1,0%/≥0,1%, not listed 2000-5000 mg/kg 1,930-5,840 mg/L/4H		CAS No.: 12054-85-2
TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: dental erosion; eye, sl Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA:	listed 1 ppm inhalation, ingestion, ± Eyes, skin, respirator irritation eyes, skin, no s; dermatitis not listed not listed, Japan PDS listed ≥1,0%/≥1,0%, A Accident Precaution 0	California Proposition 65 List: not list skin and/or eye contact y system, teeth ose, throat; pulmonary edema, bronch Canada CEPA 1999: DSL Ye CL: Deleterious Substance Article 57-2 (SDS required)	itis; emphysema; conjunctivitis; stomatis;
100 mL P-2 Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms:	Eyes, skin, respiratory irritation eyes, skin, m	California Proposition 65 List: not list skin and/or eye contact y system	CAS No.: 7681-57-4 ed



 MACHEREY-NAGEL GmbH & Co. KG
 DE
 Tel.: +49 24 21 969-0
 info@mn-net.com

 Valencienner Str. 11
 CH
 Tel.: +41 62 388 55 00
 sales-ch@mn-net.com

 52355 Düren · Germany
 FR
 Tel.: +33 388 68 22 68
 sales-fr@mn-net.com

 www.mn-net.com
 US
 Tel.: +1 888 321 62 24
 sales-us@mn-net.com



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

REF: 92		VISOCOLOR HE Phosp		Page: 8/12
Printing	date: 22.11.2022	Date of issue: 27.09.202	2	Version: 2.2.2.10
	Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Invento LD50 _{orl rat} :	not listed, Japan PDSCL: not listed listed ≥1,0%/≥1,0%, Article 57-2 (SDS re not listed	EPA 1999: DSL yes equired)	
11.2	Other hazards			
	Possible endocrine disru no data available	upting effects		
	Other information no additional data availabl	e		
SECT	ION 12: Ecological in	formation		
12.1	Toxicity Following information is vali	d for pure substances.		
	100 mL P-1 Chemical: <i>amr</i> Water hazard class (DE): Storage class (VCI):	nonium heptamolybdate 1 WGK No.: 0637 12-13	CAS No.: 12054-85	5-2
	PNEC (fresh water) : PNEC = Predicted No Effected C		CAS No.: 7664-93-	9
	LC50 fish/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 B		
	100 mL P-2Chemical:sodLC50 fish/96h :EC50 daphnia/48h :IC50 scenedesmus quadricaudWater hazard class (DE):Storage class (VCI):	ium disulfite 150-220 mg/L 89 mg/L a/72h : 48 mg/L 1 WGK No.: 1169 8 B	CAS No.: 7681-57-	4
12.2	Persistence and degrad	dability		
12.3	Bioaccumulative poten not necessary	tial		
12.4	Mobility in soil not necessary			
12.5	Results of PBT and vP This substance/mixture contair and very bioaccumulative (vPv	ns no components considered to be either pe	ersistent, bioaccumulative and toxic (P	3T) or very persistent
12.6	Endocrine disrupting p	roperties		
12.7	Other adverse effects no additional data available			





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

REF: 920082	VISOCOLOR HE Phosphate	Page: 9/12
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10

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: 14.2. UN proper shi	3316 pping name:	Chemical Kit	
14.3. Class:	9 14.4.	Packing group: II	
Road transport ADR			
Classification code:	M11	Tunnel restriction cod	le: E
Limited Quantity:	acc. ADR 3.3	.1/251: see LQ in Alter	native declaration for transportation
Air transport ICAO			
PAX:	960	max. weight PAX:	10 KG
CAO:	960	max. weight CAO:	10 KG
Maritime transport IM	DG	-	
EmS:	F-A, S-P	Storage category:	A

Or use Alternative declaration for transportation:

14.1 UN number: 14.2 UN proper sh 14.3 Class: Road transport ADR Classification code:	8 14.4 Pack		organic, n.o.s. (sodium	disulfite, sulfuric acid solution)
Limited Quantity: Excepted Quantity: Air transport ICAO Limited Quantity: Excepted Quantity: PAX: CAO:	LQ 22 E 2 E 2 851 855	Tunnel restriction co	ode: E max. weight PAX: max. weight CAO:	1 L 30 L
<i>Maritime transport I</i> EmS:	MDG 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

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
 - Chapter 4, Measures when storing hazardous substances up to 50 kg (small quantity regulation)

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

If necessary, observe other country-specific regulations.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

- DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
 - US Tel.: +1 888 321 62 24 sales-us@mn-net.com

CHEREY-NAGEL



Safety Data Sheet

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

REF: 920082	VISOCOLOR HE Phosphate	Page: 10/12
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1	Changes compared to the last version
	Between versions 2.2.2.10 and 2.2.2.2 following changes were applied: - 8 substance data corrected
40.0	List of Ll and Dishusses

metals.

16.2 List of H and P phrases

16

2.1	List of relevant H phrases		
	H290	May be corrosive to	
	H314	Causes severe skin	
	H318	Causes serious eve	

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

List of relevant P phrases 16.2.2

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.

burns and eye damage.

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 dangerous working materials

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 the CLP Regulation 1272/2008/EU to technical and scientific progress

Regulation 453/2010/EU REACH – REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET

Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019

Regulation 878/2020/EU

Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Revisions/Updates

2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary Reason for revision: 2014-04 Adjustment of Regulation 487/2013/EU 2016-03 Adjustment of Regulation 1221/2015/EU

> 2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU

16.5 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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

16.6 Legend / Abbreviations

according acc:

- ADR: Convention concerning the International Carriage of Dangerous Goods by Road Act: acute
- BAT: biological workplace tolerance value



MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com Valencienner Str. 11 CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com 52355 Düren · Germany FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com www.mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com

MACHEREY-NAGEL



Safety Data Sheet

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

REF: 920082 Printing date: 22.11.2022 VISOCOLOR HE Phosphate Date of issue: 27.09.2022 Page: 11/12 Version: 2.2.2.10

CAO.		
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:	intraperitonaeal	
ISHL:	Industrial Safety and Health Law (Jp)	
LC50:	letale concentration 50%	
LD50:	letale dosis 50%	
leuciscus idus	s: fisch, ide, orfe	
MAK:	maximum workplace concentration	
Met:	Metall	
mus:	mouse	
Muta:	mutagen	
NIOSH:	National Institute for Occupational Safety and Health (US)	
NRD:	Non-rapidly degradable	
onchorhynchu		
orl:	oral	
OSHA:	Occupational Safety and Health Administration	
PAX:	transport on passenger planes allowed	
PAX: PBT:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance	
PAX:	transport on passenger planes allowed	
PAX: PBT:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value	
PAX: PBT: pH:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value	
PAX: PBT: pH: pimephales p	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration	
PAX: PBT: pH: pimephales p PNEC:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use'	
PAX: PBT: pH: pimephales p PNEC: PROC 15:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp)	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp)	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rat: rbt: RD: RE: REACh:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REF: Reg.No.: REF: Resp: REP: Resp: RIP: scu: SDS: Sens: STEL:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REF: Reg.No.: REF: Resp: REP: Resp: RIP: scu: SDS: Sens: STEL:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: STOT:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: REF: Reg.No.: REF: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: REF: Resp: REF: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea)	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: Reg.No.: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: Tox:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: REF: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: ToX: TSCA:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US)	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: REF: Resp: REF: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: TSCA: TWA:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US) time weighted average	
PAX: PBT: pH: pimephales p PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD: RE: REACh: REF: REACh: REF: Reg.No.: REF: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: ToX: TSCA:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US)	



 MACHEREY-NAGEL GmbH & Co. KG
 DE
 Tel.: +49 24 21 969-0
 info@mn-net.com

 Valencienner Str. 11
 CH
 Tel.: +41 62 388 55 00
 sales-ch@mn-net.com

 52355 Düren · Germany
 FR
 Tel.: +33 388 68 22 68
 sales-fr@mn-net.com

 www.mn-net.com
 US
 Tel.: +1 888 321 62 24
 sales-us@mn-net.com



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

REF: 920082	VISOCOLOR HE Phosphate	Page: 12/12
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10

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.



MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com

- CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
- FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
- US Tel.: +1 888 321 62 24 sales-us@mn-net.com