MACHEREY-NAGEL



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 931084	VISOCOLOR ECO Phosphate	Page: 1/12
Printing date: 27.09.2023	Date of issue: 26.09.2022	Version: 2.2.2.10

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

1.1 Product identifier

REF Product name 931084 VISOCOLOR ECO 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 25 mL PO ₄ -1
1 x 25 ml DO . 2

1 x 25 mL PO ₄ -2

UFI: QFEU-T3MX-A20U-EFTT UFI: NJEU-A3AA-N20A-3TDV

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 Giftinformationszentrum (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 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H318	Eye Dam. 1
EUH031	-

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

25 mL PO 4 -1





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Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H315 H319	Skin Irrit. 2 Eye Irrit. 2	
25 mL PO 4 -2		
	GHS05	
Signal word	\checkmark	
Signal word Hazard identification	GHS05	

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). 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 4 -1



Signal word: WARNING

25 mL PO 4 -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.

Label elements of the complete product



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.



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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. 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.

 Information pertaining to particular risks to the 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

25 mL F	PO 4 -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,	Dam. 1, EUH031, not Indice No.:	defined 016-063-00-2
25 mL F	PO 4 -1 Substance name: CAS No.:	sulfuric acid 7664-93-9		
	Substance rating: Formula: REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye Irrit. 2 H ₂ SO ₄ •H ₂ O 01-2119458838-20-xxxx 231-639-5 5 - <15 % H315, Skin Irrit. 2, H319, Eye Irrit. 2	Indice No.:	016-020-00-8
	Substance name: CAS No.:	ammonium heptamolybdate 12054-85-2		
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: The classification refers to acc. CLP (GHS):	No criteria for classification or naming of che H 24 Mo 7 N $_6$ O 24 Ammoniummolybdat 01-2119498057-28-xxxx 234-722-4 0,5 - <2 % the weight percentage of the metal (according The criteria for classification are not fulfilled.	Correlation factor: x (0.58 (= %Mo) 72/EG Annex VI, 1.1.3.2 Note 1)

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.



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

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open 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. ---

4.1.4 After ORAL Intake

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

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.

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 chemical. Further treatment must to be carried out by an eye specialist. ---

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

No, for listed product.Product package burns like paper or plastic.

5.4 Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. 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

PBT: not applicable vPvB: not applicable

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.



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6.4	Reference to other sec	tions	
SEC	FION 7: Handling and	storage	
7.1	Precautions for safe ha	andling te test instruction, that comes with the product.	
7.2	Conditions for safe sto	p rage, including any incompatibilities the original packaging . Storage class (German chemical industry): see cha 8B 1	apter 12.1
7.2.1	Requirements for stock Keep original product package	rooms and containers s tightly closed during handling and storage. Use inbreakable container for	r transport of glass bottles.
7.3	Specific end use(s) Product for analytical use.		
SEC	FION 8: Exposure con	trols /personal protection	
8.1	Control parameters		
	TRGS 900 (DE): SUVA(CH) MAK value: NIOSH:	ulfite CAS No.: 7 [inh] 225 mg/m ³ fect Level (for workers) - E/e respirable 5 e mg/m ³ [TWA] 5 mg/m ³ average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-min none	
	25 mL PO ₄ -1 Chemical: <i>sulfuric aci</i> DNEL: DNEL = Derived No-Ef	50 μg/m³	7664-93-9
	PNEC (fresh water) : PNEC = Predicted No TRGS 900 (DE):	0.1 E mg/m ³	
	Short-term exposure factor skin resorptive (H), res	E/e respirable r: 1 (I) piratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) of	certainly excluded
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted : OSHA:	0,1 e mg/m ³ NTP Report on Carcinogens (RoC) List Yes (Known to be a human ca average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-min [TWA] 1 mg/m ³	
	Chemical: ammonium TRGS 900 (DE):	heptamolybdate CAS No.: ^ [Mo] 5 E mg/m³ E/e respirable	12054-85-2
	SUVA(CH) MAK value:	[Mo] 5 e mg/m ³	
3.2	Exposure controls Good ventilation and extraction level of cleanliness must be m	n system in the room, floor resistant to chemicals with floor drainage and w aintained at the workplace.	ashing facilities. The highest
3.2.1	Respiratory protection No additional recommend	ations.	
3.2.2		rotection 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Ne es chemical resistant latex gloves with code EN 374-3 level 1.	opren, or Nitril (f.ex. from Ans
8.2.3	Eye / Face Protection		



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

8.2.4	Skin protection
	Decommonded to ave

Recommended 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 PO 4 -2	
a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	sulfuric
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:	6-7
I) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
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

25 mL PO ₄ -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:	1-2
I) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (o/w):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1,07 g/cm ³
g) Relative vapour density _(air=1) :	no data available
r) Particle size:	no data available
,	

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**



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CHEREY-NAGE

Safety Data Sheet

according to Regulations REACh 1907/2006/EC

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SECI	TION 10: Stability and read	ctivity	
10.1	Reactivity no further data available.		
10.2	Chemical stability no known instability.		
10.3	Possibility of hazardous rea	actions	

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 PO 4 -2 Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 orl rat :	disulfite listed California Proposition 65 I inhalation, ingestion, skin and/or eye contact Eyes, skin, respiratory system irritation eyes, skin, mucous membrane not listed Canada CEPA 199 not listed, Japan PDSCL: not listed listed ≥1,0%/≥1,0%, Article 57-2 (SDS required) not listed KE-12701 1540 mg/kg	
25 mL PO 4 -1 Chemical: TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist Chem In	listed California Proposition 65 I 1 ppm inhalation, ingestion, skin and/or eye contact Eyes, skin, respiratory system, teeth irritation eyes, skin, nose not listed Canada CEPA 199 not listed, Japan PDSCL: Deleterious Substance listed ≥1,0%/≥1,0%, Article 57-2 (SDS required) Accident Precaution Chemical Yes	9: DSL Yes

Korea Exist.Chem.Inventory: KE-32570 LD50 orl rat : 2140 mg/kg LC50 ihl mus : 0,85 mg/L/4H TRGS 905 (DE): R_FC 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.Inventory: not listed 2000-5000 mg/kg LD50 orl rat : 1,930-5,840 mg/L/4H LD50 ihl rat :



according to Regulations REACh 1907/2006/EC

Printing date: 27.09.2023 Date of issue: 26.09.2022 Version 11.2 Other hazards Possible endocrine disrupting effects no data available SECTION 12: Ecological information 12.12 Section of the available SECTION 12: Ecological information 12.12 Following information is valid for pure substances. 25 mL PO 4-2 Chemical: sodium disulfite CAS No:: 7681-57-4 LG50 suppose A general might available Storage class (VCI): Storage class (VCI): 2 SmL PO 4-1 Chemical: suffuric acid PNEC (meth wath): PNEC (meth wath): <	Page: 8/12 Version: 2.2.2.10		
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 P0 4-2 Chemical: Sodium disulfite sodium disulfite CAS No.: 7681-57.4 LC50 fielw50h: 150-220 mg/L EC50 daphnia/48h: SO mg/L B mg/L EC50 daphnia/48h: CAS No.: 7681-57.4 LC50 fielw50h: 150-220 mg/L EC50 daphnia/48h: SO mg/L B mg/L EC50 daphnia/48h: CAS No.: 7664-93-9 PMEC [fielwwen]: PNEC = Predicted Concentration PNEC = Predicted Accentration LC50 fielw10h: EC50 daphnia/48h: CAS No.: 7664-93-9 PNEC = Predicted Accentration PNEC = Predicted Accentration LC50 fielw10h: EC50 daphnia/48h: NOEC, 66d] 25 µg/L EC50 daphnia/48h: CAS No.: 12054-85-2 Water hazard class (VCI): 8 B Chemical: ammonium heptamolybdate (721) 100 mg/L Water hazard class (VCI): CAS No.: 12054-85-2 Water hazard class (VCI): 12-13 Storage class (VCI): 12-13 12.1 Persistence and degradability not necessary Mobility in soil not necessary CAS No: 12054-85-2 12.3 Bioaccumulative potential not necessary To metocessary CAS No: 12054-85-2 12.4 Mobility in soil not necessary To monume thet			
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 P0 4-2 Chemical: sodium disulfite CAS No.: 7681-57-4 LC50 fash/96h: 150-220 mg/L EC50 daphna/46h: 89 mg/L Vater hazard class (DE): 1 Wder hazard class (DE): 1 Wder hazard class (DE): 1 WGE No:: 1169 Storage class (VCI): Storage class (VCI): 8 B 25 mL P0 4-1 CAS No:: 7664-93-9 PNEC (frem water): [NOEC, 65d] 25 µg/L PNEC (frem water): [NOEC, 65d] 25 µg/L EC10 pseudonomas puturi/16 in: [7/2] 100 mg/L EC10 pseudonomas puturi/16 in: [7/2] 100 mg/L EC10 pseudonomas puturi/16 in: [7/2] 100 mg/L Vater hazard class (VCI): 8 B Chemical: ammonium heptamolybdate CAS No:: 12054-85-2 Water hazard class (VCI): 12-13 12.2 Persistence and degradability not necessary CAS No:: 12054-85-2 12.3 Bioaccumulative potential not necessary CAS No:: 120			
 no additional data available SECTION 12: Ecological information 12.1 Toxicity Following information is valid for pure substances. 25 mL PO 4-2 Chemical: sodium disulfite CAS No.: 7681-57-4 LC50 fashvia/48h: 88 mg/L IC50 sceneedesmus quadricuda/72h: 48 mg/L Water hazard class (DE): 1 WGK No.: 1169 Storage class (VCI): 8 B 25 mL PO 4-1 Chemical: sulfuric acid 2.5 µg/L Chemical: Sulfuric acid 2.5 µg/L EC50 fashvia/8h: 100 mg/L EC50 fashvia/8h EC60 fashvia/8h Mobility in soil not necessary 12.4 Mobility in soil not necessary 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 p 			
 12.1 Toxicity Following information is valid for pure substances. 25 mL PO 4 -2 Chemical: sodium disulfite LC50 (snivg6h): 150-220 mg/L EC50 daphnia/48h : 89 mg/L IC50 gameleanus quadricauda/72h : 48 mg/L Water hazard class (DE): 1 WGK No.: 1169 Storage class (VCI): 8 B 25 mL PO 4 -1 Chemical: sulfuric acid PNEC (fresh water): 2.5 µg/L PNEC = Predicted No Effected Concentration LC50 daphnia/48h : 100 mg/L EC50 daphnia/48h : 100 mg/L EC50 daphnia/48h			
Following information is valid for pure substances. 25 mL PO 4-2 Chemical: sodium disulfite CAS No.: 7681-57-4 CAS No.: 7681-57-4 LCS0 fish/66h : 150-220 mg/L ECS0 daphnia/46h : 89 mg/L LCS0 fish/66h : 89 mg/L LCS0 daphnia/46h : 89 mg/L Value of the macratic class (DE): 1 WGK No.: 1169 Storage class (VCI): 8 B CAS No.: 7664-93-9 PNEC (Freeh water): 2-5 µg/L PNEC (Freeh water): 2-5 µg/L PNEC (Freeh water): 2-5 µg/L ECS0 daphnia/46h : 100 mg/L ECS0 daphnia/46h : 100 mg/L ECS0 daphnia/46h : 100 mg/L ECS0 daphnia/46h : 172h) 100 mg/L Water hazard class (DE): 1 WGK No.: 0182 Storage class (VCI): 8 B Chemical: ammonium heptamolybdate CAS No.: 12054-85-2 Water hazard class (DE): 1 WGK No.: 0637 Storage class (VCI): 12-13 Bioaccumulative potential not necessary 12.5			
25 mL PO 4-2 Chemical: sodium disulfite CAS No.: 7681-57-4 LC50 fish06h: 150-220 mg/L EC50 daphnia/48h : 89 mg/L 89 mg/L IC50 senedesmus quadricauda/72h : 48 mg/L 48 mg/L Vater hazard class (VCI): 8 B CAS No.: 7664-93-9 PNEC : Predicted No Effected Concentration PNEC : Predicted No Effected Concentration LC50 fish06h : [NOEC, 65d] 25 µg/L 100 mg/L EC10 pseudomonas putita/16h : [72h] 100 mg/L 25 µg/L UC30 fish06h : [NOEC, 65d] 25 µg/L EC10 pseudomonas putita/16h : [72h] 100 mg/L Water hazard class (DE): 1 UC40 dapshia/48h : 100 mg/L EC10 pseudomonas putita/16h : [72h] 100 mg/L Water hazard class (DE): 1 UC41 dater hazard class (DE): 1 WGK No.: 0182 CAS No.: 12054-85-2 Storage class (VCI): 12-13 CAS No.: 12054-85-2 U24 mazard class (DE): 1 WGK No.: 0637 Storage class (VCI): 12-13 CAS No.: 12054-85-2 U24 motical: ammonium heptamolybdate Water hazard class (DE): 1 not necessary 12-13 12-13 12.3 Bioaccumulative potential not necessary 12-13 12.4 Mobility in soil not necessary 14 12.5 Results of PBT and vPvB assessment This substance/			
 Chemical: sodium disulfite CAS No.: 7681-57-4 LC50 fish/96h : 150-220 mg/L EC50 agenhai/48h : 89 mg/L IC50 scenedesmus quadricauda/72h : 48 mg/L Water hazard class (DE): 1 WGK No.: 1169 Storage class (VCI): 8 B 25 mL PO 4 -1 Chemical: sulfuric acid PNEC (fresh water): 2.5 µg/L EC50 daphnia/48h : 100 mg/L EC50 daphnia/48h : 100 mg/L Water hazard class (DE): 1 WGK No.: 0182 Storage class (VCI): 8 B Chemical: ammonium heptamolybdate CAS No.: 12054-85-2 Water hazard class (DE): 1 WGK No.: 0637 Storage class (VCI): 12-13 Bioaccumulative potential not necessary Bioaccumulative potential not necessary Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very p 			
Chemical: sulfuric acid CAS No.: 7664-93-9 PNEC (fresh water): 2.5 µg/L PNEC PNEC Fish/96h: [NOEC, 65d] 25 µg/L EC50 daphnia/48h: 100 mg/L EC10 pseudomonas putita/16h: [72h] 100 mg/L Water hazard class (DE): 1 WGK No.: 0182 Storage class (VCI): 8 B Chemical: ammonium heptamolybdate CAS No.: 12054-85-2 Water hazard class (DE): 1 WGK No.: 0637 Storage class (VCI): 12-13 12.2 Persistence and degradability not necessary 12-13 12.3 Bioaccumulative potential not necessary not necessary 12.4 Mobility in soil not necessary not necessary 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 p			
 LC50 fish/96h : [NOEC, 65d] 25 µg/L EC50 daphnia/48h : 100 mg/L EC10 pseudomonas putita/16h : [72h] 100 mg/L Water hazard class (DE): 1 WGK No.: 0182 Storage class (VCI): 8 B Chemical: ammonium heptamolybdate CAS No.: 12054-85-2 Water hazard class (DE): 1 WGK No.: 0637 Storage class (VCI): 12-13 12.2 Persistence and degradability not necessary 13 Bioaccumulative potential not necessary 14.4 Mobility in soil not necessary 15.7 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very p 			
 Water hazard class (DE): 1 WGK No.: 0637 Storage class (VCI): 12-13 12.2 Persistence and degradability not necessary 12.3 Bioaccumulative potential not necessary 12.4 Mobility in soil not necessary 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very p 			
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 not necessary 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 p 			
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 p			
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very p			
	raiatant		
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 v	ill obtain		
information on laboratory waste disposal (waste code number 16 05 06). 13.1 Waste treatment methods			

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.



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according to Regulations REACh 1907/2006/EC

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rinting date: 27.09.2023		Date of issue: 26.09.2022		Version: 2.2.2.1
ECTION 14: Transpo	ort information			
14.1. UN number: 3316				
14.1. UN proper shipping	name: Chemical Kit			
14.3. Class: 9				
14.4. Packing group:	Ш			
Road transport ADR				
Classification code:	M11 Tunnel r	estriction code: E		
Limited Quantity:		e LQ in Alternative declaration	on for transportation	
Air transport IATA DGR			······	
Limited Quantity:	PAX:	960	max. quantity PAX:	10 KG
,	CAO:	960	max. quantity CAO:	10 KG
Maritime transport IMDG				
EmS:	F-A, S-P	Staukategorie:	А	
Or use Alternative declara UN No.: (see below) class 8		(≤30 mL/Σ≤500 mL) = ADR/		
		Ũ		
UN No.: (see below) class 8 or		Ũ		
UN No.: (see below) class 8 or 14.1 UN number: 3264	Bill, Excepted Quantities	(≤30 mL/∑≤500 mL) = ADR/	IATA E2	
UN No.: (see below) class 8 or 14.1 UN number: 3264	Bill, Excepted Quantities	Ũ	IATA E2	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 1	Bill, Excepted Quantities	(≤30 mL/∑≤500 mL) = ADR/	IATA E2	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 14.3 Class: 8	Bill, Excepted Quantities	(≤30 mL/∑≤500 mL) = ADR/	IATA E2	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 14.3 Class: 8 14.4 Packing group:	Bill, Excepted Quantities	(≤30 mL/∑≤500 mL) = ADR/	IATA E2	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 1 14.3 Class: 8 14.4 Packing group: Road transport ADR Classification code: Limited Quantity:	B II, Excepted Quantities name: Corrosive liquid, II C1 1 L	(≤30 mL/∑≤500 mL) = ADR/	IATA E2	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 14.3 Class: 8 14.4 Packing group: Road transport ADR Classification code: Limited Quantity: Excepted Quantity:	B II, Excepted Quantities name: Corrosive liquid, II C1	(≤30 mL/∑≤500 mL) = ADR/ acidic, inorganic, n.o.s. (sc	IATA E2	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 1 14.3 Class: 8 14.4 Packing group: Road transport ADR Classification code: Limited Quantity: Excepted Quantity: Air transport IATA DGR	B II, Excepted Quantities name: Corrosive liquid, II C1 1 L E 2	(≤30 mL/∑≤500 mL) = ADR/ acidic, inorganic, n.o.s. (so Tunnel restriction code	IATA E2 odium disulfite solution) o: E	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 14.3 Class: 8 14.4 Packing group: Road transport ADR Classification code: Limited Quantity: Excepted Quantity:	B II, Excepted Quantities name: Corrosive liquid, II C1 1 L E 2 PAX: 851	(≤30 mL/∑≤500 mL) = ADR/ acidic, inorganic, n.o.s. (so Tunnel restriction code max. quantity PAX:	IATA E2 odium disulfite solution) e: E 1 L	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 1 14.3 Class: 8 14.4 Packing group: Road transport ADR Classification code: Limited Quantity: Excepted Quantity: Air transport IATA DGR Limited Quantity:	B II, Excepted Quantities name: Corrosive liquid, II C1 1 L E 2 PAX: 851 CAO: 855	(≤30 mL/∑≤500 mL) = ADR/ acidic, inorganic, n.o.s. (so Tunnel restriction code max. quantity PAX:	IATA E2 odium disulfite solution) o: E	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 1 14.3 Class: 8 14.4 Packing group: Road transport ADR Classification code: Limited Quantity: Excepted Quantity: Air transport IATA DGR Limited Quantity: Excepted Quantity:	B II, Excepted Quantities name: Corrosive liquid, II C1 1 L E 2 PAX: 851	(≤30 mL/∑≤500 mL) = ADR/ acidic, inorganic, n.o.s. (so Tunnel restriction code max. quantity PAX:	IATA E2 odium disulfite solution) e: E 1 L	
UN No.: (see below) class 8 or 14.1 UN number: 3264 14.2 UN proper shipping 1 14.3 Class: 8 14.4 Packing group: Road transport ADR Classification code: Limited Quantity: Excepted Quantity: Air transport IATA DGR Limited Quantity:	B II, Excepted Quantities name: Corrosive liquid, II C1 1 L E 2 PAX: 851 CAO: 855	(≤30 mL/∑≤500 mL) = ADR/ acidic, inorganic, n.o.s. (so Tunnel restriction code max. quantity PAX: max. quantity CAO:	IATA E2 odium disulfite solution) e: E 1 L	

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

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.

15.2 Chemical safety assessment

not necessary for these small amounts



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REF: 931084 Printing date: 27.09.2023		VISOCOLOR ECO Phosphate Date of issue: 26.09.2022	Page: 10/12 Version: 2.2.2.10		
	ION 16: Other inf	ormation			
16.1		ed to the last version 10 and 2.2.2.2 following changes were applied: - 8 substance data corrected			
16.2	List of H and P ph	rases			
16.2.1	List of relevant H µ H315 H318 H319 EUH031	ohrases Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Contact with acids liberates toxic gas.			
16.2.2	List of relevant P p P280sh P305+351+338 P310	bhrases Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove cont do. Continue rinsing. Immediately call a POISON CENTER/doctor.	act lenses, if present and easy to		
16.3	Recommended rea	striction 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	Directive 1999/92/EG M atmospheres SUVA .CH, limit values i Regulation 790/2009/EL Regulation 453/2010/EL Regulation 487/2013/EL Regulation 1221/2015/E Regulation 776/2017/EL Regulation 669/2018/EL Regulation 521/2019/EL TRGS 900, German rule Regulation 217/2020/EL Regulation 878/2020/EL Regulation 1182/2020/EL Regulation 643/2021/EL	ta s on hazardous materials, 2021 inimum requirements to improve the safety and health protection of workers at n the air at work 2009, revised on 01/2009 J, adaptation of Regulation 1272/2008/EU to technical and scientific progress (J, adaptation of the REACH regulation 1907/2006/EG J, adaptation of regulation 1272/2008/EG to technical and scientific progress (J, adaptation of regulation 1272/2008/EG to technical and scientific progress (J, adaptation of regulation 1272/2008/EG to technical and scientific progress J, adaptation of Regulation 1272/2008/EG to technical and scientific progress J, adaptation of Regulation 1272/2008/EG to technical and scientific progress J, adaptation of regulation 1272/2008/EG to technical and scientific progress J, adaptation of regulation 1272/2008/EG to technical and scientific progress J, adaptation of regulation 1272/2008/EG to technical and scientific progress (J, adaptation of regulation 1272/2008/EG to technical and scientific progress (J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and J, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and	1st ATP) (7th ATP) (7th ATP) (0th ATP) ext (11th ATP) (13th ATP) 12th ATP) scientific progress (14th ATP) d scientific progress (15th ATP) scientific progress (16th ATP) scientific progress (17th ATP)		
	20	014-02 Corrected structure of the sections according to Regulation 453/2010/E 014-04 adjustment according Regulation 487/2013/EU 016-03 adjustment according Regulation 1221/2015/EU	U, if necessary		

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



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MACHEREY-NAGEL

Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 931084VISOCOLOR ECO PhosphatePage: 11/12Printing date: 27.09.2023Date of issue: 26.09.2022Version: 2.2.2.10

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	
MAK:	maximum workplace concentration
Met:	Metall
mus: Muta:	mouse
NIOSH:	mutagen National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	us mykiss: fish, rainbow trout
onchorhynchu orl:	us mykiss: fish, rainbow trout oral
onchorhynchu orl: OSHA:	us mykiss: fish, rainbow trout oral Occupational Safety and Health Administration
onchorhynchu orl: OSHA: PAX:	us mykiss: fish, rainbow trout oral Occupational Safety and Health Administration transport on passenger planes allowed
onchorhynchu orl: OSHA: PAX: PBT:	us mykiss: fish, rainbow trout oral Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance
onchorhynchu orl: OSHA: PAX: PBT: pH:	us mykiss: fish, rainbow trout oral Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value
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according to Regulations REACh 1907/2006/EC

REF: 931084	VISOCOLOR ECO Phosphate	Page: 12/12
Printing date: 27.09.2023	Date of issue: 26.09.2022	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.



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