MACHEREY-NAGEL



Safety Data Sheet

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

REF: 920082	VISOCOLOR HE Phosphate	Page: 1/9
Printing date: 01.10.2019	Date of issue: 17.04.2019	

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

1.1	Product identifier REF Product name	920082 VISOCOLOR HE Phosphate
	REACH Registration number(s): A registration number for the subs the substance or its use is exclude	see SECTION 3.1/3.2 or stance(s) does not exist because the annual tonnage does not require registration or ed from registration.
		1 x 100 mL P-1 1 x 100 mL P-2
1.2	Relevant identified uses Product for analytical use. Exposure Scenario Classific	e substance or mixture and uses advised against cation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 ntegrated into sections 1-16.
1.3	Details of the supplier of the s Manufactured by: MACHEREY-NAGEL GmbH & Co. Neumann-Neander-Str. 6-8, 52355 Tel.: +49 2421 969 0	KG
1.4	Emergency telephone number Outside Germany (DE): Call your re DE: Gemeinsames Giftinformations	egional Poisons Information Service or call local Life Saving Service.
	You find our current versions of SDS (22 lan	nguages) in Internet: http://www.mn-net.com/SDS
SECT	ION 2: Hazard identificatio	n
2.0	Classification of the complete	∋ product

	GHS05
Signal word	DANGER
Hazard identification	Hazard classes/categories
EUH031	031 not defined
H290	Met. Corr. 1
H314	Skin Corr. 1A
H318	Eye Dam. 1

2.1 Classification of the substance or mixture

100 mL P-1





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Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H290 H314	Met. Corr. 1 Skin Corr. 1A	
100 mL P-2		
	GHS05	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
EUH031	031 not defined	

2.2 Label elements

H318

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

Eye Dam. 1

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

H318 Causes serious eye damage.

P280sh, P305+351+338, P310

Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

2.3 Other hazards

Possible hazards from physicochemical properties





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

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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 vPvB: not applicable

Other hazards

Contains an odor intensive reagent. ---

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

100 mL P-1

100 1112				
		nium heptamolybdate		CAS No.: 12054-85-2
	Classification:	No criteria for classification or naming	of chemical not required.	
	Formula:	H ₂₄ Mo7 N ₆ O ₂₄		
	Pseudonym:	hexaammonium heptamolybd	ate	
	TSCA Inventory:	listed (CAS 11098-84-3)		
	REACH Reg. No.:	01-2119498057-28-xxxx		
	EC No.:	234-722-4		
	RTECS:	QA5076000 / QA4900000	MFCD:	00167059
	KE No.:	not listed		
	Concentration:	2 - <5 %		r: x 0.58 (= %Mo)
	The classification refers to	o weight percent of the metal (according	to CLP Regulation 2008/1272	/EC Annex VI, 1.1.3.2 Note 1)
	acc. CLP (GHS):	The criteria for classification are not fu	ulfilled.	
	Chemical: sulfuri	ic 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.:	01-2119458838-20-xxxx		
	EC No.:	231-639-5	Indice No.:	016-020-00-8
	RTECS:	WS5600000		
	KE No.:	KE-32570, >10% Toxic 97-1-4	05, Acc. Precaution Che	em.
	Concentration:	15 - <30 %		
	acc. CLP (GHS):	H290, Met. Corr. 1, H314, Ski	n Corr. 1B	
100 mL	D 2			
100 mL		m dia ulfita		CAS No : 7691 57 4
	Chemical: sodiur Classification:	n disulfite		CAS No.: 7681-57-4
	Formula:	H302, Acute Tox. 4 oral, H318	o, ⊑ye Dam. 1, E0H031,	UST HOL GEIITIEG
		$Na_2 O_5 S_2$	n nura quifita	
	Pseudonym:	sodium metabisulphite, sodiur	n pyrosullite	
	TSCA Inventory:	listed		

entory REACH Reg. No.: 01-2119531326-45-xxxx EC No .: 231-673-0 Indice No.: 016-063-00-2 RTECS: UX8225000 KE No.: KE-12701 Concentration: 10 - <25 % acc. CLP (GHS): H318, Eye Dam. 1, EUH031, 031 not defined

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



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SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

4.1.1 After SKIN Contact

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

4.1.2 After EYE Contact

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

4.1.3 After INHALATION of vapours

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

4.1.4 After ORAL Intake

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

4.2 Most important symptoms and effects, both acute and delayed

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.



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Fillun	g dale. 01.10.2019	Date of issue. 17.04.2	519		
6.4	Reference to other see information in section 5.4				
SECT	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		orage, including any incompatik of MACHEREY-NAGEL allows a safe stor 8B 1			
7.2.1	Requirements for stock Keep original product pa		storage. Use inbreakable container for transpor	rt of glass bottles.	
7.3	Specific end use(s) Product for analytical use.				
SECI	FION 8: Exposure co	ntrols/personal protection			
8.1	Control parameters				
	TRGS 900 (DE):	heptamolybdate [Mo] 5 E mg/m³ E/e respirable	CAS No.: 12054-85-2		
	SUVA(CH) MAK value:	[Mo] 5 e mg/m³			
	Chemical: sulfuric acl DNEL: DNEL = Derived No-E	d [inh] 50 μg/m³ ífect Level (for workers)	CAS No.: 7664-93-9		
		2.5 μg/L Effected Concentration			
	EU value: TRGS 900 (DE):	0.1 e mg/m³ 0.1 E mg/m³ E/e respirable			
		espiratory sensitizable (Sa), skin sensitizable (Sh), te	ratogenic (Z) not securely excluded / (Y) certainly excluded	d	
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted OSHA:	0,1 e mg/m³ NTP Report on Carcinogens (RoC) Li average to a reference period of 8 hours, [STEL] Sho [TWA] 1 mg/m³	st Yes (Known to be a human carcinogen); [TV ort-term exposure limit related to a 15-minute period	VA] 1 mg/m³	
	100 mL P-2 Chemical: sodium dis DNEL: DNEL = Derived No-E	<i>ulfite</i> [inh] 225 mg/m³ ífect Level (for workers)	CAS No.: 7681-57-4		
	TRGS 900 (DE):	- E/e respirable			
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted OSHA:	5 e mg/m ³ [TWA] 5 mg/m ³ average to a reference period of 8 hours, [STEL] Sho none	prt-term exposure limit related to a 15-minute period		
		nono			
8.2	Exposure controls				

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.



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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

Information on basic physical and chemical properties 9.1

100 mL P-1 Appearance: liquid pH: Specific gravity: Solubility in water:

Solubility in water:

100 mL P-2 Appearance: liquid Colour: colourless 0-1 1,21 g/cm3 0-100 %

Colour: colourless

5-7

0-100 %

Odor: odorless

Odor: penetrative

9.2 Other information

pH:

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.

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.

100	mL	P-1
-----	----	-----

	Chemical: TSCA Inventory: Japan ISHL: Korea Exist.Chem.Ii		nium heptamolybdate listed (CAS 11098-84 listed ≥1,0%/≥0,1%, : not listed	4-3)		CAS No.:	12054-85-2
	Chemical: TSCA Inventory: ACGIH: Exposure Routes:	sulfurio	c acid listed 1 ppm inhalation, ingestion,		roposition 65 List: not lis	CAS No.: sted	7664-93-9 www.mn-net.com
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	Towned Owners		
	Target Organs: Symptoms: dental erosion; eye, skin		edema, bronchitis; emphysema; conjunctivitis; stomatis;
	Australia NICNAS:		A 1999: DSL Yes
	Japan CSCL/PRTR:	not listed, Japan PDSCL: Deleterious Subst	
	Japan ISHL:	listed ≥1,0%/≥1,0%, Article 57-2 (SDS requi	red)
	South Korea TCCA: Korea Exist Chem Invent	Accident Precaution Chemical Yes ory: KE-32570, >10% Toxic 97-1-405, Acc. Prec	aution Chem
	LD50 _{orl rat} :	2140 mg/kg	
	LC50 _{ihl rat} :	[8h] 600/ [4h] 850 mg/m³	
	TRGS 905 (DE):	Kat 4	
	100 mL P-2		
		ium disulfite	CAS No.: 7681-57-4
	TSCA Inventory: Exposure Routes:	listed California Proposition inhalation, ingestion, skin and/or eye contac	
	Target Organs:	Eyes, skin, respiratory system	l
	Symptoms:	irritation eyes, skin, mucous membrane	
	Australia NICNAS:		A 1999: DSL yes
	Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed listed ≥1,0%/≥1,0%, Article 57-2 (SDS requi	rod)
	Japan ISHL: South Korea TCCA:	not listed	red)
	Korea Exist.Chem.Invent		
	LD50 _{orl rat} :	1540 mg/kg	
	LD50 _{drm rat} :	2000 mg/kg	
ECTI	ON 12: Ecological in	oformation	
2.1	Toxicity		
	Following information is val 100 mL P-1	a for pure substances.	
	Chemical:	ammonium heptamolybdate	CAS No.: 12054-85-2
	Water hazard class (DE): 1 WGK No.: 0637	
	Storage class (VCI):	12-13	
	Chemical:	sulfuric acid	CAS No.: 7664-93-9
		stance/mixture to environment.	
	PNEC _(fresh water) : PNEC = Predicted No Effe	2.5 μg/L cted Concentration	
	LC50fish/96h :	[NOEC, 65d] 25 μg/L	
	EC50 _{daphnia} /48h :	100 mg/L	
	EC10 _{pseudomonas puti} Water hazard class (
	Storage class (VCI):	8 B	
	100 mL P-2		
	Chemical:	sodium disulfite	CAS No.: 7681-57-4
	LC50 _{fish/96h} : EC50 _{clean} tria (49h	150-220 mg/L 89 mg/L	
	EC50 _{daphnia/48h} :	09 HIY/L	

12.2 Persistence and degradability

Storage class (VCI):

IC50scenedesmus quadricauda/72h : Water hazard class (DE):

not necessary

12.3 **Bioaccumulative potential**

not necessary

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48 mg/L

WGK No.: 1169

1

8 B



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12.4 Mobility in soil not necessary

- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects no additional data available

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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

SECTION 14: Transport information

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

Or use Alternative declaration for transportation:

```
14.1 UN number:
      3264
```

14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid, sodium disulfite solution) 14.3 Class: 8 14.4 Packing group: II

Classification code: Limited Quantity: Excepted Quantity: Air transport	C1 1 L E 2	Tunnel restriction code:		E
PAX: CAO:	851 855	max. weight PAX: max. weight CAO:	1 L 30 L	
<i>Maritime transport</i> 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
- Transport in bulk according to Annex II of MARPOL and the IBC Code 14.7 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.



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REF: 920082 **VISOCOLOR HE Phosphate** Page: 9/9 Printing date: 01.10.2019 Date of issue: 17.04.2019 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 H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. EUH031 Contact with acids liberates toxic gas. 16.1.2 List of relevant P phrases Do not breathe vapours. P260D 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. Immediately call a POISON CENTER/doctor. P310 P390 Absorb spillage to prevent material damage.

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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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2018 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU

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