

# **Safety Data Sheet**

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

VISOCOLOR alpha Phosphate Page: 1/8

Date of issue: 03.12.2020 Printing date: 15.11.2021

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

#### 1.1 **Product identifier**

REF 935079

Product name VISOCOLOR alpha 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<sub>4</sub>-1 1 x 25 mL PO<sub>4</sub> -2

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, GERMANY

E-mail: sds@mn-net.com (msds@mn-net.com) Tel.: +49 2421 969 0

#### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

http://www.mn-net.com/SDS

## **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product





GHS05

GHS07

**DANGER** Signal word

Hazard identification Hazard classes/categories

EUH031 031 not defined H315 Skin Irrit. 2 H318 Eye Dam. 1 H319 Eye Irrit. 2

#### Classification of the substance or mixture 2.1

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



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> WARNING Signal word

Hazard identification Hazard classes/categories H315 Skin Irrit. 2 H319 Eye Irrit. 2

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

Signal word DANGER

Hazard identification Hazard classes/categories

EUH031 031 not defined H318 Eye Dam. 1

#### 2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I 1.5.1.2).

Harmful chemicals/mixtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

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



GHS07

Signal word: WARNING

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



GHS05

Signal word: DANGER

Causes serious eye damage.

P280sh, P305+351+338, P310

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

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. In the case of pH values are less than 5 or higher than 9 then it is irritant. --

### Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

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Information pertaining to particular risks to the environment

PBT: not applicable vPvRnot applicable

Other hazards

Contains an odor intensive reagent. ---

# **SECTION 3: Composition/information on ingredients**

#### 3.1 **Substances or 3.2 Mixtures**

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

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

Classification: No criteria for classification or naming of chemical not required.

H<sub>24</sub> Mo<sub>7</sub> N<sub>6</sub> O<sub>24</sub> Formula: Pseudonvm: hexaammonium heptamolybdate TSCA Inventory: listed (CAS 11098-84-3) REACH Reg. No.: 01-2119498057-28-xxxx

EC No.: 234-722-4 QA5076000 / QA4900000 RTFCS:

KE No.: not listed Concentration: 0.5 - <2 % Correlation factor: x = 0.58 =

MFCD:

00167059

acc. CLP (GHS): The criteria for classification are not fulfilled.

sulfuric acid (diluted < 5 %) CAS No.: 7664-93-9d Chemical:

Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: H<sub>2</sub> SO<sub>4</sub> •H<sub>2</sub> O

TSCA Inventory: listed

REACH Reg. No.: 01-2119458838-20-xxxx

EC No.: 231-639-5 Indice No: 016-020-00-8

WS5600000 RTFCS: KE No.: KE-32570 Concentration: 5 - <15 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

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

CAS No.: 7681-57-4 Chemical: sodium disulfite

H302, Acute Tox. 4 oral, H318, Eye Dam. 1, EUH031, 031 not defined Classification:

Formula: Na<sub>2</sub> O<sub>5</sub> S<sub>2</sub>

Pseudonym: sodium metabisulphite, sodium pyrosulfite

TSCA Inventory: listed

REACH Reg. No.: 01-2119531326-45-xxxx

016-063-00-2 EC No.: 231-673-0 Indice No:

UX8225000 RTFCS 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

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

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

#### 4.1.1 After SKIN Contact

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

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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

---

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

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.

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

not necessary

## 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

Collect small amounts of leaked liquid and flush with water into drains.

### 6.4 Reference to other sections

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## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

### 7.2 Conditions for safe storage, including any incompatibilities

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

Water hazard class (DE):

### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

## 7.3 Specific end use(s)

Product for analytical use.

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CAS No.: 12054-85-2

# Safety Data Sheet

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## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

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

Chemical: ammonium heptamolybdate

TRGS 900 (DE): [Mo] 5 E mg/m<sup>3</sup> SUVA(CH) MAK value: [Mo] 5 e mg/m<sup>3</sup>

Chemical: sulfuric acid CAS No.: 7664-93-9d

50 μg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.5 µg/L PNEC = Predicted No Effected Concentration 2.5 µg/L 0.1 E mg/m<sup>3</sup> TRGS 900 (DE): E/e respirable

Short-term exposure factor: 1 (I)

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0.1 e ma/m<sup>3</sup>

NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period NIOSH:

OSHA: [TWA] 1 mg/m<sup>3</sup>

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

Chemical: sodium disulfite CAS No.: 7681-57-4

[inh] 225 mg/m³
DNEL = Derived No-Effect Level (for workers) DNEL:

TRGS 900 (DE):

E/e respirable SUVA(CH) MAK value: 5 e mg/m<sup>3</sup> [TWA] 5 mg/m<sup>3</sup> NIOSH:

ige to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA:

#### 8.2 **Exposure controls**

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

#### 8.2.1 Respiratory protection

No additional recommendations.

## 8.2.2

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

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 contamination with these hazards.

## 8.2.5

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

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

Colour: colourless Odor: odorless Appearance: liquid

pH: 1-2 1,07 g/cm<sup>3</sup> Specific gravity:

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

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> Appearance: liquid Colour: colourless Odor: sulfurio 6-7

pH:

#### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

Relevant Properties of Substance Group

## **SECTION 10: Stability and reactivity**

10.1 Reactivity

no further data available.

10.2 Chemical stability

No known instability

10.3 Possibility of hazardous reactions

No further data available.

10.4 Conditions to avoid

Not necessary. ---

10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

10.6 Hazardous decomposition products

> In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

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

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

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

TSCA Inventory: listed (CAS 11098-84-3) Japan ISHL: listed ≥1,0%/≥0,1%,

Korea Exist.Chem.Inventory: not listed

Chemical: sulfuric acid CAS No.: 7664-93-9d

TSCA Inventory: California Proposition 65 List: not listed

ACGIH: 1 ppm

Exposure Routes: inhalation, ingestion, skin and/or eye contact **Target Organs:** Eyes, skin, respiratory system, teeth

Symptoms: irritation eyes, skin, nose

Australia NICNAS: Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

Accident Precaution Chemical Yes South Korea TCCA:

Korea Exist.Chem.Inventory: KE-32570 LD50<sub>orl rat</sub>: 2140 mg/kg

[8h] 600/ [4h] 850 mg/m<sup>3</sup> LC50<sub>ihl rat</sub>:

TRGS 905 (DE): R<sub>F</sub> C

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

Chemical: sodium disulfite CAS No.: 7681-57-4

TSCA Inventory: California Proposition 65 List: not listed

**Exposure Routes:** inhalation, ingestion, skin and/or eye contact

Eyes, skin, respiratory system Target Organs:

Symptoms: irritation eyes, skin, mucous membrane

Australia NICNAS: Canada CEPA 1999: DSL yes not listed not listed, Japan PDSCL: not listed

Japan CSCL/PRTR: Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: not listed

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> Korea Exist.Chem.Inventory: KE-12701 LD50<sub>orl rat</sub>: 1540 mg/kg LD50<sub>drm rat</sub>: 2000 mg/kg

# **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

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

CAS No.: 12054-85-2 Chemical: ammonium heptamolybdate

Water hazard class (DE): WGK No.: 0637

Storage class (VCI): 12-13

CAS No.: 7664-93-9d Chemical: sulfuric acid

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.5 µg/L

LC50fish/96h: [NOEC, 65d] 25 µg/L

 $EC50_{daphnia/48h}$ : 100 mg/L EC10<sub>pseudomonas putita/16h</sub>: [72h] 100 mg/L

Water hazard class (DE): WGK No.: 0182

Storage class (VCI): 8 B

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

Chemical: sodium disulfite CAS No.: 7681-57-4

150-220 mg/L LC50<sub>fish/96h</sub>: EC50<sub>daphnia/48h</sub>: 89 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h: 48 mg/L

Water hazard class (DE): WGK No.: 1169

Storage class (VCI):

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

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 - 14.4: No dangerous goods according the transport regulations

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

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#### 14.6 Special precautions for user

not necessary

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

MN Leaflet/User manual, also see www.mn-net.com

Look for your country-specific regulations.

#### 15.2 Chemical safety assessment

not necessary for these small amounts ---

## SECTION 16: Other information

#### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

Causes skin irritation. H315 H318 Causes serious eye damage. H319 Causes serious eye irritation. Contact with acids liberates toxic gas. FUH031

#### 16.1.2 List of relevant P phrases

Do not breathe vapours. P260D

P280sh Wear protective gloves/eye protection.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### 16.2 Training advice

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

#### 16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4 **Further information**

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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#### 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

Regulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 849/2021/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

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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