

Safety Data Sheet

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

NANOCOLOR ortho and total Phosphate 15 Page: 1/11

Printing date: 02.06.2020 Date of issue: 26.07.2019

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

1.1 **Product identifier**

REF 985080

Product name NANOCOLOR ortho and total Phosphate 15

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 20x 27 mg NANOFIX total Phosphate 1-45 (R3) 1 x 20x 35 mg NANOFIX total Phosphate 1-50 (R2)

1 x 5 mL total Phosphate 1-45 (R4) 20 x 5 mL total Phosphate 5/15 (R0)

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.

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG

Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY

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

1.4 **Emergency telephone number**

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

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

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

SECTION 2: Hazard identification

Classification of the complete product 2.0







GHS03

GHS07

GHS08

Signal word **DANGER**

Hazard identification	Hazard classes/categories
H272	Ox. Sol. 2
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H335	STOT SE 3

2.1 Classification of the substance or mixture

20x 27 mg NANOFIX total Phosphate 1-45 (R3)

Do not need labelling as hazardous

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US:



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Signal word

Signal word

No hazard class

20x 35 mg NANOFIX total Phosphate 1-50 (R2)







DANGER

Hazard identification	Hazard classes/categories
H272	Ox. Sol. 2
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H335	STOT SE 3

5 mL total Phosphate 1-45 (R4)



Signal word WARNING

Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H319	Eve Irrit, 2

5 mL total Phosphate 5/15 (R0)

Do not need labelling as hazardous

Signal word

No hazard class

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). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 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). This labelling exemption is NOT valid for sensibilizing substances. Oxidizing mixtures with signal word: DANGER and H272 must not be labelled with H and P phrases until 125 mL.

20x 27 mg NANOFIX total Phosphate 1-45 (R3)

Do not need labelling as hazardous Signal word: -

20x 35 mg NANOFIX total Phosphate 1-50 (R2)







GHS07

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Signal word: DANGER

H317, H334

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P280sh, P342+311

Avoid breathing dust/vapours. Wear protective gloves/eye protection. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

5 mL total Phosphate 1-45 (R4)



GHS07

Signal word: WARNING

5 mL total Phosphate 5/15 (R0)

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

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

Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Information pertaining to particular risks to the environment

PRTnot applicable vPvB: not applicable

Other hazards

SECTION 3: Composition/information on ingredients

3.1 **Substances or 3.2 Mixtures**

20x 27 mg NANOFIX total Phosphate 1-45 (R3)

CAS No.: 50-81-7 Chemical: L(+)-ascorbic acid

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

Formula: C₆ H₈ O₆ Pseudonvm: vitamin C TSCA Inventory: listed

REACH Reg. No.: exempt, Annex IV

200-066-2 EC No.:

RTECS: CI7650000 MFCD: 00064328

KE No .: KE-01947 Concentration: 90 - <100 %

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

20x 35 mg NANOFIX total Phosphate 1-50 (R2)

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> sodium peroxodisulfate CAS No.: 7775-27-1 Chemical:

H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2, Classification:

H334, Resp. Sens. 1, H335, STOT SE 3 Formula: $Na_2 O_8 S_2$

sodium persulfate Pseudonym:

TSCA Inventory: listed

REACH Reg. No.: 01-2119495975-15-xxxx

231-892-1 EC No.: RTECS: SE0525000 KE-12369 KE No.: Concentration: 80 - <100 %

acc. CLP (GHS): H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2,

H334, Resp. Sens. 1, H335, STOT SE 3

5 mL total Phosphate 1-45 (R4)

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

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

Formula: H₂₄ Mo₇ N₆ O₂₄

Pseudonym: hexaammonium heptamolybdate TSCA Inventory: listed (CAS 11098-84-3) 01-2119498057-28-xxxx

REACH Reg. No.: EC No.: 234-722-4

RTECS: QA5076000 / QA4900000 MFCD: 00167059

KE No .: not listed

Concentration: 2 - < 5 % Correlation factor: x 0.58 (= %Mo) The classification refers to Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1) weight percent of the metal (according to CLP

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

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

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

Formula: H₂ SO₄ •H₂ O

TSCA Inventory: listed

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

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

RTECS: WS5600000 KF No . KF-32570 Concentration: 5 - < 15 %

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

5 mL total Phosphate 5/15 (R0)

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

Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2 H₂ SO₄ •H₂ O Formula:

TSCA Inventory: listed

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

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

RTECS: WS5600000 KE No.: KE-32570 Concentration: 1 - < 5 %

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

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. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1

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.

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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 with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. Inform patient respectively further measures and the possibility of long-term damages. ---

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. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Environmental precautions

not necessary

6.3 Methods and material for containment and cleaning up

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

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

6.4 Reference to other sections

see information in section 5.4 ---

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas. Use a safety bottle when shaking test tubes.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 5.1B Water hazard class (DE): 1

7.2.1 Requirements for stock rooms and containers

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Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

20x 27 mg NANOFIX total Phosphate 1-45 (R3)

L(+)-ascorbic acid CAS No.: 50-81-7

20x 35 mg NANOFIX total Phosphate 1-50 (R2)

Chemical: sodium peroxodisulfate CAS No.: 7775-27-1

not listed

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed

5 mL total Phosphate 1-45 (R4)

ammonium heptamolybdate CAS No.: 12054-85-2

[Mo] 5 E mg/m³ E/e respirable TRGS 900 (DE): SUVA(CH) MAK value: [Mo] 5 e mg/m³

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

DNEL: DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 2.5 µg/L PNEC = Predicted No Effected Concentration 0.1 E mg/m³ 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 mg/m³

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/m³

5 mL total Phosphate 5/15 (R0)

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

 $50~\mu g/m^3 \\ \text{DNEL} = \text{Derived No-Effect Level (for workers)}$ DNEL: PNEC (fresh water): 2.5 µg/L PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 0.1 E mg/m³

Short-term exposure factor: 1 (I)

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded 0,1 e mg/m³

SUVA(CH) MAK value: NIOSH:

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 [TWA] 1 mg/m³

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.

Respiratory protection 8.2.1

Use for open access of these substances for example a protection filter, class A/AX. 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 Eve protection

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

20x 27 mg NANOFIX total Phosphate 1-45 (R3)

Appearance: solid (lyoph.) Colour: white Odor: odorless

5-6 Solubility in water: 0-25 %

20x 35 mg NANOFIX total Phosphate 1-50 (R2)

Appearance: solid (lyoph.) Colour: colourless Odor: odorless

Solubility in water: 0-100 %

5 mL total Phosphate 1-45 (R4)

Appearance: liquid Colour: slightly yellow Odor: odorless

Specific gravity: 1,11 g/cm³

Solubility in water: 0-100 %

5 mL total Phosphate 5/15 (R0)

Appearance: liquid Colour: colourless Odor: odorless

pH: 0-1 Specific gravity: 1,01 g/cm³ Solubility in water: 0-100 %

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. Observe labeled storage temperature. ---

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.

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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.

20x 27 mg NANOFIX total Phosphate 1-45 (R3)

L(+)-ascorbic acid CAS No.: 50-81-7

TSCA Inventory listed Korea Exist.Chem.Inventory: KE-01947 LD50_{orl rat}: 11900 mg/kg LD50_{ivn mus}: 518 mg/kg

20x 35 mg NANOFIX total Phosphate 1-50 (R2)

sodium peroxodisulfate Chemical: CAS No.: 7775-27-1

TSCA Inventory: California Proposition 65 List: not listed listed Australia NICNAS: Yes (PEC/18) Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

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

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-12369 LD50_{orl rat}: 902 mg/kg

Acute Effects: Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small

quantities.

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

5 mL total Phosphate 1-45 (R4)

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

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

Korea Exist.Chem.Inventory: not listed

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

TSCA Inventory: listed 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

Canada CEPA 1999: DSL Yes Australia NICNAS: not listed

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

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-32570 LD50_{orl rat}: 2140 mg/kg

[8h] 600/ [4h] 850 mg/m³ LC50_{ihl rat}:

TRGS 905 (DE): R_F C

5 mL total Phosphate 5/15 (R0)

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

TSCA Inventory: listed 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: not listed 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)

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-32570 LD50_{orl rat}: 2140 mg/kg

[8h] 600/ [4h] 850 mg/m³ LC50_{ihl rat}:

TRGS 905 (DE): R_F C

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CAS No.: 7664-93-9d

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SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

20x 27 mg NANOFIX total Phosphate 1-45 (R3)

CAS No.: 50-81-7 L(+)-ascorbic acid

Water hazard class (DE): WGK No.: 0737 1

Storage class (VCI): 13

20x 35 mg NANOFIX total Phosphate 1-50 (R2)

CAS No.: 7775-27-1 Chemical: sodium peroxodisulfate

Water hazard class (DE): WGK No.: 1352

Storage class (VCI): 5.1 B

5 mL total Phosphate 1-45 (R4)

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

Water hazard class (DE): WGK No.: 0637 1

Storage class (VCI): 12-13

Chemical: sulfuric acid

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

LC50_{fish/96h}: [NOEC, 65d] 25 µg/L EC50_{daphnia/48h}: 100 mg/L EC10pseudomonas putita/16h [72h] 100 mg/L

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

Storage class (VCI):

5 mL total Phosphate 5/15 (R0)

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

PNEC (fresh water):
PNEC = Predicted No Effected Concentration $2.5 \mu g/L$

LC50_{fish/96h}: [NOEC, 65d] 25 µg/L EC50_{daphnia/48h}: 100 mg/L EC10_{pseudomonas putita/16h}: Water hazard class (DE): [72h] 100 mg/L

WGK No.: 0182

8 R 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

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Safety Data Sheet

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

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SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations because De Minimis (excepted quantities: ≤1 mL/∑≤100 mL) = ADR 3.5.1.4

De Minimis (excepted quantities: ≤1 mL/∑≤100 mL) = IATA DRG 2.6.10

14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

14.6 Special precautions for user

not necessary

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

not applicable

SECTION 15: Regulatory information

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

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

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

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

Look for your country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

May intensify fire; oxidizer. H272 Harmful if swallowed. H302 H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

H335 May cause respiratory irritation.

16.1.2 List of relevant P phrases

Keep away from heat/sparks/open flames/hot surfaces. No smoking. P210

P261sh Avoid breathing dust/vapours.

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+312

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P330

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

Training advice

16.2

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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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.

16.5 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, 4th 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

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

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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