MACHEREY-NAGEL



Safety Data Sheet

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

REF: 91878	NANOCOLOR ortho Phosphate	Page: 1/10
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	91878 NANOCOLOR ortho Phosphate
	REACH Registration number(s): A registration number for the subst the substance or its use is exclude	see SECTION 3.1/3.2 or ance(s) does not require registration or
		2 x 100 mL Phosphate R1 2 x 100 mL Phosphate R2
1.2	Relevant identified uses Product for analytical use.	ation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 egrated 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	<g contract="" of="" se<="" second="" td="" the=""></g>
1.4	Emergency telephone number Outside Germany (DE): Call your re DE: Gemeinsames Giftinformations	gional Poisons Information Service or call local Life Saving Service.
	You find our current versions of SDS (22 lan	nuages) in Internet: http://www.mn-net.com/SDS
SECT	ION 2: Hazard identification	1

	eneco
Signal word	DANGER
Hazard identification	Hazard classes/categories
Hazard identification	Hazard classes/categories Met. Corr. 1

2.1 Classification of the substance or mixture

100 mL Phosphate R1

GHS05
DANGER
Hazard classes/categories
Skin Corr. 1A



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100 mL Phosphate R2



Signal word DANGER

Hazard identification	Hazard classes/categories	
H290	Met. Corr. 1	
H314	Skin Corr. 1A	

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)

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 Phosphate R1



Signal word: DANGER

H314 Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

100 mL Phosphate R2



Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

2.3 Other hazards

Possible hazards from physicochemical properties

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

Information pertaining to particular risks to human and possible symptoms

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



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

PBT: not applicable vPvB: not applicable

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

<i>c acid</i> H314, Skin Corr. 1B H₂ SO4 (•H₂ O)		CAS No.: 7664-93-9
01-2119458838-20-xxxx 231-639-5 WS5600000	Indice No.: Acc. Precaution Chem.	016-020-00-8
30 - <51 % H314, Skin Corr. 1B		
	emical not required.	CAS No.: 12054-85-2
QA5076000 / QA4900000	MFCD:	00167059
2 - <5 %	Correlation factor: x	
weight percent of the metal (according to CLF	P Regulation 2008/1272/EC	Annex VI, 1.1.3.2 Note 1)
The criteria for classification are not fulfilled.		
c acid H314, Skin Corr. 1B H ₂ SO ₄ (•H ₂ O) listed		CAS No.: 7664-93-9
01-2119458838-20-xxxx 231-639-5	Indice No.:	016-020-00-8
15 - <30 %		
NH ₄ VO ₃ ammonium trioxovanadate listed 232-261-3 YW0875000 KE-01756 0,01 - <1 %	n Irrit. 2, H319, Eye Irri	CAS No.: 7803-55-6 t. 2, H332, Acute Tox. 4 inh.
	H314, Skin Corr. 1B H ₂ SO ₄ (•H ₂ O) listed 01-2119458838-20-xxxx 231-639-5 WS5600000 KE-32570, >10% Toxic 97-1-405, A 30 - <51 % H314, Skin Corr. 1B nium heptamolybdate No criteria for classification or naming of che H ₂₄ Mo ₇ N ₆ O ₂₄ hexaammonium heptamolybdate listed (CAS 11098-84-3) 01-2119498057-28-xxx 234-722-4 QA5076000 / QA4900000 not listed 2 - <5 % weight percent of the metal (according to CLF The criteria for classification are not fulfilled. 2 acid H314, Skin Corr. 1B H ₂ SO ₄ (•H ₂ O) listed 01-2119458838-20-xxxx 231-639-5 WS5600000 KE-32570, >10% Toxic 97-1-405, A 15 - <30 % H290, Met. Corr. 1, H314, Skin Cor niummonovanadate H301, Acute Tox. 3 oral, H315, Skin NH4 VO ₃ ammonium trioxovanadate listed 232-261-3 YW0875000 KE-01756	H314, Skin Corr. 1B H ₂ SO ₄ (+H ₂ O) listed 01-2119458838-20-xxxx 231-639-5 Indice No.: WS5600000 KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem. 30 - <51 % H314, Skin Corr. 1B nium heptamolybdate No criteria for classification or naming of chemical not required. H ₂₄ Mo ₇ N ₆ O ₂₄ hexaammonium heptamolybdate listed (CAS 11098-84-3) 01-2119498057-28-xxxx 234-722-4 QA5076000 / QA4900000 MFCD: not listed 2 - <5 % Correlation factor: x weight percent of the metal (according to CLP Regulation 2008/1272/EC The criteria for classification are not fulfilled. 2 acid H314, Skin Corr. 1B H ₂ SO ₄ (+H ₂ O) listed 01-2119458838-20-xxxx 231-639-5 Indice No.: WS5600000 KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem. 15 - <30 % H290, Met. Corr. 1, H314, Skin Corr. 1B niummonovanadate H301, Acute Tox. 3 oral, H315, Skin Irrit. 2, H319, Eye Irri NH4 VO ₃ ammonium trioxovanadate listed 232-261-3 YW0875000 KE-01756 0,01 - <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 16.1



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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.

After INHALATION of vapours 4.1.3

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 INTAKÉ 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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6.4	Reference to other s		
	see information in section 5	j.4	
SEC	ΓΙΟΝ 7: Handling ar	ld storage	
' .1	Precautions for safe Handling in accordance wit	handling h the test instruction, that comes with the product.	
. 2		storage, including any incompatibilities ge of MACHEREY-NAGEL allows a safe storage. 8B 3	
.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		ontainer for transport of glass bottles.
.3	Specific end use(s) Product for analytical use.		
SEC	FION 8: Exposure c	ontrols/personal protection	
.1	Control parameters		
	100 mL Phosphate R Chemical: <i>sulfuric a</i> DNEL:	acid CAS [inh] 50 µg/m³	S No.: 7664-93-9
	DNEL = Derived N PNEC _(fresh water) : PNEC = Predicted	o-Effect Level (for workers) 2.5 µg/L No Effected Concentration	
	EU value: TRGS 900 (DE):	0.1 e mg/m ³ 0.1 E mg/m ³ E/e respirable	
	Short-term exposure fa skin resorptive (H) SUVA(CH) MAK value	, respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely exclude	ed / (Y) certainly excluded
	NIOSH:	NTP Report on Carcinogens (RoC) List Yes (Known to be a hun ted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to [TWA] 1 mg/m ³	nan carcinogen); [TWA] 1 mg/m ³ a 15-minute period
	100 mL Phosphate R Chemical: <i>ammoni</i> TRGS 900 (DE):		S No.: 12054-85-2
	SUVA(CH) MAK value		
		[inh] 50 μg/m³ o-Effect Level (for workers)	S No.: 7664-93-9
	PNEC _(fresh water) : PNEC = Predicted EU value:	0.1 e mg/m ³	
	TRGS 900 (DE): Short-term exposure fa		
	SUVA(CH) MAK value NIOSH:	 respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely exclude 0,1 e mg/m³ NTP Report on Carcinogens (RoC) List Yes (Known to be a hun ted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a reference period of 8 hours. 	nan carcinogen): [TWA] 1 mg/m³
	OSHA:	[TWA] 1 mg/m ³	
	Chemical: ammoni TRGS 900 (DE):	ummonovanadate CAS [V] 0.005 _A ; 0.030 _E mg/m³ E/e respirable	S No.: 7803-55-6
	Short-term exposure fa skin resorptive (H) NIOSH:	actor: 1 (I); Y , respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely exclude [V2O5] 0.05 mg/m ³	ed / (Y) certainly excluded
		ted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a [V2O5] 0.0005_A ; 0.0001_E mg/m ³	a 15-minute period
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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 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3 Eye protection

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

Skin protection 8.2.4

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

9.1 Information on basic physical and chemical properties

100 mL Phosphate R1

Appearance: liquid pH: Specific gravity: Solubility in water:

Colour: colourless 0-1 1,23 g/cm3 0-100 %

Odor: odorless

100 mL Phosphate R2

Appearance: liquid pH: Specific gravity: Solubility in water:

Colour: slightly yellow 0-1 1,2 g/cm3 0-100 %

Odor: odorless

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 Can react violently with organic material. 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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REF: 91878 NANOCOLOR ortho Phosphate Page: 7/10 Printing date: 01.10.2019 Date of issue: 17.04.2019 **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 Phosphate R1 Chemical: sulfuric acid CAS No.: 7664-93-9 **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 irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis; Symptoms: dental erosion; eye, skin burns; dermatitis Australia NICNAS: not listed Canada CEPA 1999: DSL Yes not listed, Japan PDSCL: Deleterious Substance Japan CSCL/PRTR: 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, >10% Toxic 97-1-405, Acc. Precaution Chem. 2140 mg/kg LD50orl rat : [8h] 600/ [4h] 850 mg/m³ LC50ihl rat : TRGS 905 (DE): Kat 4 100 mL Phosphate R2 Chemical: ammonium heptamolybdate CAS No.: 12054-85-2 **TSCA** Inventory: listed (CAS 11098-84-3) listed ≥1,0%/≥0,1%, Japan ISHL: Korea Exist.Chem.Inventory: not listed Chemical. sulfuric acid CAS No · 7664-93-9 California Proposition 65 List: not listed **TSCA** Inventory: 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, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis; dental erosion; eye, skin burns; dermatitis 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) Accident Precaution Chemical Yes South Korea TCCA: Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem. LD50orl rat : 2140 mg/kg LC50_{ihl rat}: [8h] 600/ [4h] 850 mg/m³ TRGS 905 (DE): Kat 4 Chemical: CAS No.: 7803-55-6 ammoniummonovanadate **TSCA** Inventory: listed ACGIH: [8h TWA] 0.05 mg/m3 Japan CSCL/PRTR: PRTR: ≥1,0% V class I, Japan PDSCL: Deleterious substance Japan ISHL: not listed Korea Exist.Chem.Inventory: KF-01756 LD50orl rat : 169 mg/kg LC50_{ihl rat}: 2.5 mg/m³ > 2500 mg/kg LD50drm rat : TRGS 905 (DE): DFG K2, M2

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	FION 12: Ecological informat	tion	
12.1	Toxicity		
	Following information is valid for pure	substances.	
	100 mL Phosphate R1 Chemical: sulfuric ac Avoid contact of substance/mixt PNEC(fresh water) : PNEC = Predicted No Effected Concent	ure to environment.	CAS No.: 7664-93-9
	LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI):	[NOEC, 65d] 25 µg/L 100 mg/L [72h] 100 mg/L 1 WGK No.: 0182 8 B	
	100 mL Phosphate R2 Chemical: ammonium Water hazard class (DE): Storage class (VCI):	n heptamolybdate 1 WGK No.: 0637 12-13	CAS No.: 12054-85-2
	Chemical: sulfuric ac Avoid contact of substance/mixt PNEC(fresh water) : PNEC = Predicted No Effected Concent	ure to environment.	CAS No.: 7664-93-9
	LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI):	[NOEC, 65d] 25 µg/L 100 mg/L [72h] 100 mg/L 1 WGK No.: 0182 8 B	
	Chemical: ammonium Water hazard class (DE): Storage class (VCI):	nmonovanadate 3 6.1 B	CAS No.: 7803-55-6
12.2	Persistence and degradability not necessary		
2.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB asses no data available	ssment	
12.6	Other adverse effects no additional data available		
SEC	ΓΙΟΝ 13: Disposal considera	tions	
ii	nformation on laboratory waste disposal (was	and disposal of hazardous waste and contact w te code number 16 05 06).	aste disposal company, where you will obtain
13.1	Waste treatment methods Normally it is possible to empty small amo water.	ounts (diluted!) into drains. Empty containers of c	corrosive reagents prior to disposal, rinse with
SECT	ΓΙΟΝ 14: Transport informati	on	
1	4.1. UN number: 3316 14.2. UN prop 4.3. Class: 9 14.4. Packing Road transport	er shipping name: Chemical Kit group: II	
C	Classification code: M11 Tunnel re	estriction code: E e LQ in Alternative declaration for transportation	

Limited Quantity: Air transport	acc. ADR 3.3	.1/251: see LQ in Alter	native declaration
PAX:	960	max. weight PAX:	10 KG
CAO:	960	max. weight CAO:	10 KG



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<i>Maritime transport</i> EmS:	F-A, S	6-P	Storage category:	A	
Or use Alternative of	declarat	tion fo	r transportation:		
14.1 UN number: 14.3 Class: Road transport	3264 8		UN proper shipping na Packing group: II	ne: Corrosive liquid, acidic, inorganic, n.o.s. (sulfu	ric acid solution)
Classification code: Limited Quantity: Excepted Quantity:	C1 1 L E 2		Tunnel restriction code	E	
Air transport PAX: CAO: Maritime transport	851 855		5	L 0 L	

В

EmS: F-A, S-B Storage category:

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

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16.1.1	List of relevant H	phrases			
	H290	May be corrosive to metals.			
	H314	Causes severe skin burns and eye damage.			
16.1.2	List of relevant P phrases				
	P260sh	Do not breathe dust/vapours.			
	P280sh	Wear protective gloves/eye protection.			
	P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].			
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
	P310	Immediately call a POISON CENTER/doctor.			
	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.

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

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16.4 **Further information**

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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 Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances) KÜHN. BIRETT

Revisions/Updates

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

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