MACHEREY-NAGEL



Safety Data Sheet

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

REF: 935079	VISOCOLOR alpha Phosphate	Page: 1/8
Printing date: 14.02.2020	Date of issue: 04.12.2019	

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

		······································
1.1	Product identifier REF Product name	935079 VISOCOLOR alpha Phosphate
	REACH Registration number(s): A registration number for the subst the substance or its use is excluded	see SECTION 3.1/3.2 or tance(s) does not exist because the annual tonnage does not require registration or d from registration.
		1 x 25 mL PO ₄ -1 1 x 25 mL PO ₄ -2
1.2	Relevant identified uses Product for analytical use.	e substance or mixture and uses advised against ation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 tegrated into sections 1-16.
1.3	Details of the supplier of the s Manufactured by: MACHEREY-NAGEL GmbH & Co. I 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: You find our current versions of SDS (22 lang	r egional Poisons Information Service or call local Life Saving Service. izentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730
SECTI	ON 2: Hazard identification	n

2.0 Classification of the complete product

	GHS05 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
EUH031 H315 H318 H319	031 not defined Skin Irrit. 2 Eye Dam. 1 Eye Irrit. 2

2.1 Classification of the substance or mixture

25 mL PO₄ -1





MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: Tel.: +49 24 21 969-0 Tel.: +49 24 21 969-199 Fax:

Version: M V 4.12.0 E-mail: info@mn-net.com

+41 62 388 55 00 +41 62 388 55 05 Fax: E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

www.mn-net.com



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

REF: 935079	VISOCOLOR alpha Phosphate	Page: 2
Printing date: 14.02.2020	Date of issue: 04.12.2019	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H315 H319	Skin Irrit. 2 Eye Irrit. 2	
25 mL PO4 -2		
	GHS05	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
EUH031 H318	031 not defined 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 PO₄ -1



Signal word: WARNING

25 mL PO₄ -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

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.



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com www.mn-net.com



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

REF: 935079		VISOCOLOR alpha	•		Page: 3/
Printing date: 14.	02.2020	Date of issue: 04.12	2.2019		
PE	formation pertaining to pa BT: not applicable vB: not applicable	articular risks to the environment			
	her hazards ontains an odor intensive re	agent			
SECTION 3:	Composition/inf	ormation on ingredien	its		
3.1 Subs	tances or 3.2 Mixture	es			
25	mL PO ₄ -1 Chemical: ammo	onium heptamolybdate		CAS No.: 12054-85-2	
	Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.:	No criteria for classification or naming of c H24 Mo7 N6 O24 hexaammonium heptamolybdate listed (CAS 11098-84-3) 01-2119498057-28-xxxx 234-722-4	hemical not required.		
	RTECS: KE No.:	QA5076000 / QA4900000 not listed	MFCD:	00167059	
		0,5 - <2 % o weight percent of the metal (according to C		or: x 0.58 (= %Mo) 2/EC Annex VI, 1.1.3.2 Note 1)	
	acc. CLP (GHS):	The criteria for classification are not fulfille	ed.		
	Classification: Formula: TSCA Inventory:	ic acid (diluted < 5 %) H315, Skin Irrit. 2, H319, Eye Irrit H ₂ SO4 •H ₂ O listed	. 2	CAS No.: 7664-93-9d	
	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	01-2119458838-20-xxxx 231-639-5 WS5600000 KE-32570 5 - <15 % H315, Skin Irrit. 2, H319, Eye Irrit	Indice No.:	016-020-00-8	
		1010, Okin int. 2, 1010, Lyc int	. 2		
25	mL PO ₄ -2 Chemical: sodiul Classification: Formula: Pseudonym:	n disulfite H302, Acute Tox. 4 oral, H318, E Na ₂ O ₅ S ₂ sodium metabisulphite, sodium py		CAS No.: 7681-57-4 , 031 not defined	
	TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.:	listed 01-2119531326-45-xxxx 231-673-0 UX8225000 KE-12701	Indice No.:	016-063-00-2	
	Concentration: acc. CLP (GHS):	10 - <25 % H318, Eye Dam. 1, EUH031, 031	not defined		
8.3 Rema					

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.



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: Tel.: +49 24 21 969-0 Tel.: +49 24 21 969-199 Fax: Fax:

Version: M V 4.12.0 E-mail: info@mn-net.com

+41 62 388 55 00 +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com www.mn-net.com



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

REF: 935079		VISOCOLOR alpha Phosphate	Page: 4/8	
Printing	g date: 14.02.2020	Date of issue: 04.12.2019		
l.1.2	bottle, eye douche or running	nse thoroughly under running water with the eyelid wide open for min. 10 g water (protect intact eye). Before (if possible) apply eye drops Proxymeta ful. Further treatment to be carried out by an eye specialist.		
1.1.3	After INHALATION of vapo After inhalation of foam or va	urs apour fresh air should be inhaled. Keep airways free		
1.1.4	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			
SECI	TION 5: Firefighting me	asures		
5.1		the fire classification, and, if applicable, a fire blanket must be available in FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used		
	Special hazards arising f	rom the substance or mixture		
5.2		stic vapour-air mixtures possible		
5.2 5.3				
	Formation of hazardous and cause Advice for firefighters			

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1

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

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): 1
- 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.



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com www.mn-net.com



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

	935079 g date: 14.02.2020		COLOR alpha Phosphate of issue: 04.12.2019	Page: 5/8
	TION 8: Exposure con			
8.1	Control parameters			
	25 mL PO ₄ -1 Chemical: <i>ammonium</i> TRGS 900 (DE):	<i>heptamolybdate</i> [Mo] 5 E mg/m³ ^{E/e} respirable	CAS No.: 12054-85-2	
	SUVA(CH) MAK value:	[Mo] 5 e mg/m³		
	Chemical: <i>sulfuric acid</i> DNEL: DNEL = Derived No-Eff	50 µg/m³	CAS No.: 7664-93-9d	
	PNEC(fresh water) : PNEC = Predicted No E TRGS 900 (DE):	2.5 μg/L Effected Concentration 0.1 E mg/m ³		
	Short-term exposure facto	E/e respirable r: 1 (I)	sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) MAK value: NIOSH:	0,1 e mg/m³ NTP Report on Carci	inogens (RoC) List Yes (Known to be a human carcinogen); TW. f 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:	[TWA] 1 mg/m ³		
	25 mL PO₄ -2 Chemical: <i>sodium disu</i> DNEL: DNEL = Derived No-Eff	[inh] 225 mg/m ³	CAS No.: 7681-57-4	
	TRGS 900 (DE): SUVA(CH) MAK value:	- E/e respirable 5 e mg/m³		
	NIOSH:	[TWA] 5 mg/m ³	f 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:	none		
8.2	Exposure controls Good ventilation and extractior level of cleanliness must be ma		or resistant to chemicals with floor drainage and washing facilitie	s. The highest
8.2.1	Respiratory protection No additional recommenda	ations.		
8.2.2			30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril ex gloves with code EN 374-3 level 1.	(f.ex. from Ansell
8.2.3	Eye protection Yes, safety glasses accord	ding EN 166 with integra	ted side shields or wrap-around protection or face protection.	
8.2.4	Skin protection Recommended to avoid co	ontamination with these h	hazards.	
8.2.5	with the skin, eyes and clo	thing. Rinse any clothing	e of food in work areas and at outdoor workplaces is prohibited. <i>A</i> g on which the substance has been spilled, and soak it in water. rk and before eating, and then apply protective skin cream.	
SEC	TION 9: Physical and o	chemical prope	rties	
9.1	Information on basic p	hysical and chemi	cal properties	

25 mL PO₄ -1 Appearance: liquid pH: Specific gravity:

Colour: colourless 1,07 g/cm³

Odor: odorless

25 mL PO₄ -2

MACHEREY-NAGE $\langle MN \rangle$ ISO 9001 CERTIFIED

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: +41 62 388 55 00 +41 62 388 55 05 Tel.: Tel.: +49 24 21 969-0 +49 24 21 969-199 Fax: Fax: Version: M V 4.12.0 E-mail: info@mn-net.com

Tel.: E-mail: sales-ch@mn-net.com

1-2

FR: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

www.mn-net.com



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

REF: 935079	VISOCOLOR alpha Phosphate	Page: 6/8
Printing date: 14.02.2020	Date of issue: 04.12.2019	

Appearance: liquid pH:

Colour: colourless 6-7

Odor: sulfuric

CAS No.: 12054-85-2

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 PO₄ -1

Chemical:	ammonium heptamolybdate	
TSCA Inventory:	listed (CAS 11098-84-3)	
Japan ISHL:	listed ≥1,0%/≥0,1%,	
Korea Exist.Chem.In	ventory: not listed	

Chemical:	sulfuric	acid			CAS No.: 7664-93-9d
TSCA Inventory:		listed	California Propositi	on 65 List: not lis	ted
ACGIH:		1 ppm			
Exposure Routes:		inhalation, ingestion,	skin and/or eye con	tact	
Target Organs:		Eyes, skin, respirator	/ system, teeth		
Symptoms:		irritation eyes, skin, n	ose		
Australia NICNAS:		not listed	Canada CE	PA 1999: DSL Y	es
Japan CSCL/PRTR:		not listed, Japan PDS	CL: Deleterious Sul	bstance	
Japan ISHL:		listed ≥1,0%/≥1,0%, A	vrticle 57-2 (SDS rea	quired)	
South Korea TCCA:		Accident Precaution (Chemical Yes	. ,	
Korea Exist.Chem.Inv	ventory:	KE-32570			
LD50 _{orl rat} :	-	2140 mg/kg			
LC50 _{ihl rat} :		[8h] 600/ [4h] 850 mg	/m³		
TRGS 905 (DE):		R _F C			

25 mL PO₄ -2

-	-			
	Chemical:	sodium disulfite	CA	S No.: 7681-57-4
	TSCA Inventory:	listed	California Proposition 65 List: not listed	
	Exposure Routes:	inhalation, ingestion,	skin and/or eye contact	
	Target Organs:	Eyes, skin, respirator	ry system	
	Symptoms:	irritation eyes, skin, r	mucous membrane	
	Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes	
	Japan CSCL/PRTR:	not listed, Japan PD	SCL: not listed	
	Japan ISHL:	listed ≥1,0%/≥1,0%,	Article 57-2 (SDS required)	
	South Korea TCCA:	not listed		



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com

www.mn-net.com



REF: 9	35079		VISOCOLOR alpha Phosphate	Page: 7/8
Printing	g date: 14.02.2020		Date of issue: 04.12.2019	
	Korea Exist.Chem.Invento LD50 _{orl rat} :	ory: KE-12701 1540 mg/l		
	LD50 _{drm rat} :	2000 mg/l	0	
SEC1	FION 12: Ecological in	offormatic	on	
12.1	Toxicity			
	Following information is valid for pure substa		bstances.	
	25 mL PO ₄ -1			
	Chemical: Water hazard class (eptamolybdate 1 WGK No.: 0637	CAS No.: 12054-85-2
	Storage class (VCI):	52).	12-13	
	Chemical:	sulfuric acid		CAS No.: 7664-93-9d
	PNEC(fresh water) PNEC = Predicted No Effe		2.5 μg/L	
	LC50fish/96h :	cied Concentratio	[NOEC, 65d] 25 µg/L	
	EC50 _{daphnia/48h} :		100 mg/L	
	EC10 _{pseudomonas puti} Water hazard class (a/16h: DE):	[72h] 100 mg/L 1 WGK No.: 0182	
	Storage class (VCI):	,	8 B	
	25 mL PO4 -2			
	Chemical:	sodium disulf		CAS No.: 7681-57-4
	LC50 _{fish/96h} : EC50 _{daphnia/48h} :		150-220 mg/L 89 mg/L	
	IC50 _{scenedesmus} quad	icauda/72h	48 mg/L	
	Water hazard class (Storage class (VCI):	DE):	1 WGK No.: 1169 8 B	
40.0	Densistence and dense	al a la 1114 .		
12.2	Persistence and degra not necessary	dability		
12.3	Bioaccumulative poter	tial		
12.5	not necessary	illai		
12.4	Mobility in soil			
	not necessary			
12.5	Results of PBT and vP	vB assess	ment	
	no data available			
12.6	Other adverse effects			
	no additional data available			
SECT	[ION 13: Disposal co	nsiderati	ons	
	•			ct waste disposal company, where you will obtain
	nformation on laboratory waste dis			
13.1	Waste treatment method	ods		
	Normally it is possible to empt	v small amour	ots (diluted) into drains. Empty containers	of corrosive reagents prior to disposal, rinse with

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



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: +41 62 388 55 00 Tel.: +49 24 21 969-0 Tel.: Tel.: +49 24 21 969-199 Fax: Fax: Fax:

Version: M V 4.12.0 E-mail: info@mn-net.com

+41 62 388 55 05 E-mail: sales-ch@mn-net.com

+33 388 68 22 68 +33 388 51 76 88 E-mail: sales-fr@mn-net.com www.mn-net.com



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

REF: 935079	VISOCOLOR alpha Phosphate	Page: 8/8
Printing date: 14.02.2020	Date of issue: 04.12.2019	

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

	•				
6.1.1	List of relevant H phrases				
	H315	Causes skin irritation.			
	H318	Causes serious eye damage.			
	H319	Causes serious eye irritation.			
	EUH031	Contact with acids liberates toxic gas.			
6.1.2	List of relevant P phrases				
	P260D	Do not breathe vapours.			
	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**

1

1

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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the 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.

E-mail: sales-fr@mn-net.com

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

Revisions/Updates

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

E-mail: sales-ch@mn-net.com



www.mn-net.com

E-mail: sales-us@mn-net.com

HEREY-NAGEL	MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany										
MN	DE/ir	nternational:	CH:		FR:		US:				
	Tel.:	+49 24 21 969-0	Tel.:	+41 62 388 55 00	Tel.:	+33 388 68 22 68	Tel.:	+1 484 821 0984			
ISO 9001 CERTIFIED	Fax:	+49 24 21 969-199	Fax:	+41 62 388 55 05	Fax:	+33 388 51 76 88	Fax:	+1 484 821 1272			

Version: MV 4.12.0 E-mail: info@mn-net.com