ACHEREY-NAGE



Safety Data Sheet

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

REF: 935075	VISOCOLOR alpha pH 5-9	Page: 1/8
Printing date: 01.10.2019	Date of issue: 14.09.2018	

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

1.1 **Product identifier**

REF Product name 935075 VISOCOLOR alpha pH 5-9

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 24 mL pH 5-9

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 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. 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

2.1 Classification of the substance or mixture

24 mL pH 5-9

	GHS02
Signal word	DANGER
Hazard identification	Hazard classes/categories
H225	Flam. Liq. 2

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 and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

24 mL pH 5-9





MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: Tel.: +49 24 21 969-0 Tel.: Fax: +49 24 21 969-199 Fax: Version: M V 4.10.1 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

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



Damilat: 4007/0000/E0 (DEAOb) and 0045/000/EU

REF: 935075		VISOCOLOR	alpha pH 5-9		Page: 2/8	
Printing date: 01.10.2019		Date of issue	: 14.09.2018		_	
	Signal word	I: DANGER				
2.3	Other hazards					
	Possible hazards f Flammable propertie	om physicochemical properties s				
	Information pertain	ing to particular risks to human and	I possible symptoms			
	Information pertain	ing to particular risks to the enviro	nment			
	Other hazards					
OFOT		on/information on increa	dianata			
3EC I 3.1	•	on/information on ingre	aients			
D. I	Substances or 3.2 Mixtures					
	24 mL pH 5-9 Chemical: Classificati Formula: Pseudonyn TSCA Inve REACH Re EC No.:	C ₂ H ₆ O; C ₂ H ₅ OH ethyl alcohol, methylated s ntory: listed	,	CAS No.: 64-17-5 603-002-00-5		
	RTECS: KE No.: Concentrat acc. CLP (KQ6300000 KE-13217 ion: 90 - <98 %	MFCD:	00003568		
	Chemical: Classificati Formula: Pseudonyn TSCA Inve REACH Re SVHC liste	C ₂₀ H ₁₄ O ₄ a; 3,3-bis(4-hydroxyphenyl)-1 htory: listed g. No.: 01-2119498295-24-0000		CAS No.: 77-09-8		
	EC No.: RTECS: KE No.:	201-Ò04-7 SM8380000 KE-03234	Indice No.: MFCD:	604-076-00-1 00005913		

acc. CLP (GHS): The criteria for classification are not fulfilled. CAS No.: -Chemical: indicator dye(s) Classification: No criteria for classification or naming of chemical not required. **TSCA** Inventory: all listed, <1% 0,01 - <0,1 % Concentration: 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%.

0,01 - <0,1 %

List of H and P phrases: see section 16.1

Concentration:

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.

4.1.1 After SKIN Contact

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

www.mn-net.com



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.: Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: Version: M V 4.10.1 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com

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



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

REF: 9 Printing	35075 g date: 01.10.2019	VISOCOLOR alpha pH 5-9 Date of issue: 14.09.2018	Page: 3/8
<u> </u>	g date. 01.10.2010	Date 01/3300. 14:00.2010	
4.1.2	After EYE Contact After contact with the eyes r running water (protect intact	rinse thoroughly under running water with the eyelid wide open with eye wa t eye).	ashing bottle, eye douche or
4.1.3	After INHALATION of vapor After inhalation of foam or v	ours apour fresh air should be inhaled. Keep airways free	
4.1.4	After ORAL Intake After oral intake lots of wate	er should be drunk after it has been ingested	
4.2	Most important symptor	ns and effects, both acute and delayed	
4.3	Indication of any immed No additionally recommendation	liate medical attention and special treatment needed	
SECI	ION 5: Firefighting me	easures	
5.1	Extinguishing media		
	Fire extinguishers appropriate to	the fire classification, and, if applicable, a fire blanket must be available in FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be use	
5.2	•	from the substance or mixture HS regulation). Forms explosive vapour-air mixtures. Formation of hazardo	ous and caustic vapour-air
5.3	Advice for firefighters No, for listed product. Product pa	ackage burns like paper or plastic.	
5.4	Additional information		
SECI	ION 6: Accidental rele	ase measures	
6.1	Personal precautions, p Do not breathe vapours. Regula	rotective equipment and emergency procedures r staff training is necessary.	
6.2	Environmental precaution	ons	
6.3	Bind any escaping liquid with ine	or containment and cleaning up ert absorbent. liquid and flush with water into drains.	
6.4	Reference to other secti	ons	
SECI	ION 7: Handling and s	storage	
7.1	Precautions for safe har Handling in accordance with the	ndling test instruction, that comes with the product.	
7.2	Conditions for safe stor	age, including any incompatibilities MACHEREY-NAGEL allows a safe storage. 3 1	
7.2.1	Requirements for stock ro Keep original product packa	boms and containers ages tightly closed during handling and storage.	
7.3	Specific end use(s) Product for analytical use.		

DE/international: **(MN)** ISO 9001 CERTIFIED Fax:

MACHEREY-NAGE

Tel.: +49 24 21 969-0 Tel.: +49 24 21 969-199 Fax: Version: M V 4.10.1 E-mail: info@mn-net.com

CH: +41 62 388 55 00 +41 62 388 55 05 E-mail: sales-ch@mn-net.com

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany 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



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

REF: 935075 Printing date: 01.10.2019		VISOCOLOR a Date of issue: 1		Page: 4/8
	-			
SEC	TION 8: Exposu	re controls/personal protect	ion	
8.1	Control parame	ters		
	DNEL:	hanol [derm] 343 mg/kg; [inh] 950 mg rived No-Effect Level (for workers)	CAS No.: 64-17-5	
	PNEC(fresh water) PNEC = Pr	: 0.96 mg/L edicted No Effected Concentration		
	TRGS 900 (DE):	200 mL/m ³ / 380 mg/m ³ E/e respirable		
	skin resorr SUVA(CH) MAK NIOSH:	value: 500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³	(Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded	
	OSHA:	[TWA] 1000 ppm / 1900 mg/m ³	EL] Short-term exposure limit related to a 15-minute period	
	Chemical: <i>ph</i> NIOSH: carcinogen)	enolphthalein (pH indicator) not listed, NTP Report on Carc	CAS No.: 77-09-8 inogens (RoC) List Yes (Reasonably anticipated to be a hu	uman
		e-weighted average to a reference period of 8 hours, [S not listed	EL] Short-term exposure limit related to a 15-minute period	
	Chemical: in	dicator dye(s)	CAS No.: -	
8.2			t to chemicals with floor drainage and washing facilities. Th	he highest
8.2.1	Respiratory pro No additional rec			
8.2.2			vel 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex vith code EN 374-3 level 1.	د. from Ansell
8.2.3	Eye protection Yes, safety glass	ses according EN 166 with integrated side sl	ields or wrap-around protection.	
8.2.4	Skin protection Not necessary.			
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.			
SEC	TION 9: Physica	l and chemical properties		
9.1	Information on	basic physical and chemical prop	erties	
	24 mL pH 5-9 Appearance: liqu Odor limit:	uid Colour: red 1993	Odor: alcoholic	

Appearance: liquid	Colour: red
Odor limit:	1993
pH:	7
Melting point:	-114 °C
Boiling point:	78 °C
Flash point:	> 12 °C
Explosion limits:	3.515 g/m³
Vapour pressure (20°C):	59
Vapour density _(air=1) :	1,59
Specific gravity:	0,79-0,86 g/cm3
Solubility in water:	0-100 %
Flashing temperature:	425 °C
Volatiles by volume:	112
volatiles by volutile.	112

www.mn-net.com



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

Version: M V 4.10.1 E-mail: info@mn-net.com



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

REF: 935075	VISOCOLOR alpha pH 5-9	Page: 5/8
Printing date: 01.10.2019	Date of issue: 14.09.2018	

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 Substances are very volantile and form flammable vapour-air mixtures. ---

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
- 10.5 Incompatible materials

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.

24 mL pH 5-9

Chemical:	ethano	1	CAS No.: 64-17-5	
TSCA Inventory:		listed	California Proposition 65 List: not listed	
ACGIH:		1000 ppm		
Exposure Routes:			, skin and/or eye contact	
Target Organs:		Eves, skin, respirator	bry system, central nervous system, liver, blood, reproductive system	
Symptoms:			nose, headache, drowsiness, lassitude (weakness, exhaustion), narcosis, coug	h;
liver damage; anemia	a; reproc	luctive, teratogenic		
Australia NICNAS:		not listed	Canada CEPA 1999: DSL yes	
Japan CSCL/PRTR:		not listed, Japan PDS	SCL: not listed	
Japan ISHL:		listed ≥0,1%/≥0,1%, /	Article 57-2 (SDS required)	
South Korea TCCA:		not listed		
Korea Exist.Chem.Inv	ventory:	KE-13217		
LD50 _{orl rat} :		6200 mg/kg		
LC_Low _{ihl gpg} :		21.9 g/m³		
LC_Loworl hmn :		1400 mg/kg		
LC50 _{ihl mouse} :		[4h] 39 g/m ³		
LC50 _{ihl rat} :		[10h] 20 g/m ³		
LD50 _{drm rbt} :		20 000 mg/kg		
LD50 _{oral mouse} :		3450 mg/kg		
TRGS 905 (DE):		K5, M5, R _F C		
Chemical:	phenol	ohthalein (pH indicator	or) CAS No.: 77-09-8	
TSCA Inventory:	p	listed	California Proposition 65 List: listed, cancer	
Australia NICNAS:		not listed	Canada CEPA 1999: DSL yes	
Japan CSCL/PRTR:		PRTR - Class II Desig	signated Chemical Substance, Japan PDSCL: not listed	
Japan ISHL:		not listed		
South Korea TCCA:		not listed		
Korea Exist.Chem.Inv	ventory:	KE-03234		
LD50 _{orl rat} :		>1000 mg/kg		
EU carcinogen: TRGS 905 (DE):		Carcinogenicity cat. 2 Karzinogenität Kat. 2	2, Germ Cell Mutagenicity cat. 3, >5% Reproductive Toxicity cat. 3	
1100 000 (DE).			<u>-</u>	



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 4.10.1 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



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

REF: 93	35075	VISOCOLOR alpha pH 5-9		Page: 6/8
Printing	date: 01.10.2019	Date of issue: 14.09.2018		_
	Chemical: <i>indicator dye</i> (s) TSCA Inventory: all listed,	<1%	CAS No.: -	
SECT	ION 12: Ecological information	on		
12.1	Toxicity Following information is valid for pure su	ibstances.		
	24 mL pH 5-9 Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	CAS No.: 64-17-5	
	LC50daphnia magna/48h : LC50pimephales promelas/96h : LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient(octanol-water) : Storage class (VCI):	>100 mg/L 13400 - 15100 mg/L [48h] 8140 mg/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096 -0.31 3		
	Chemical: phenolphthal Water hazard class (DE): Dispersion coefficient _(octanol-water) : Storage class (VCI):	lein (pH indicator) 1 0.9 12-13	CAS No.: 77-09-8	
	Chemical: <i>indicator dye</i> Storage class (VCI):	(s) 12-13	CAS No.: -	
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 assess no data available	ment		
12.6	Other adverse effects no additional data available			
SECT	ION 13: Disposal consideration	ons		

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.

SECTION 14: Transport information

14.1. L	JN number:	3316	14.2.	UN proper shipping	g name: Chemical Kit
14.3. C	Class:	9	14.4.	Packing group:	I
Road tra	ansport				
Classific	cation code:	M11		Tunnel restriction co	ode: E
Limited	Quantity:	acc. Al	DR 3.3	.1/251: see LQ in Alte	ernative declaration for transportation
Air trans	sport				
PAX:		960		max. weight PAX:	10 KG
CAO:		960		max. weight CAO:	10 KG
Maritime	e transport				
EmS:		F-A, S-	·P	Storage category:	A

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

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



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

REF: 935075	VISOCOLOR alpha pH 5-9	Page: 7/8
Printing date: 01.10.2019	Date of issue: 14.09.2018	
T		

Or use Alternative declaration for transportation:

F-E, S-E

UN 1993 class 3 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2 or 14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture) 14.3 Class: 14.4 Packing group: 3 Road transport Classification code: F1 Limited Quantity: 1 L Tunnel restriction code: Е Excepted Quantity: F 2 Special instructions: 640C Air transport PAX: 353 max. weight PAX: 51 CAO 364 max. weight CAO: 60 I Maritime transport

14.5 **Environmental hazards**

EmS:

none, contains only small quantities of hazardous substances

- 14.6 Special precautions for user not necessarv
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

Storage category:

SECTION 15: Regulatory information

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

В

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 H225 Highly flammable liquid and vapour.
- 16.1.2 List of relevant P phrases
 - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed.
- 16.2 Training advice

Regular safety training

16.3 Recommended restriction on use

Only for professional user.

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.



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

Version: M V 4.10.1 E-mail: info@mn-net.com



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

REF: 935075

Printing date: 01.10.2019

VISOCOLOR alpha pH 5-9 Date of issue: 14.09.2018

Page: 8/8

16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 453/2013/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 2017-08 Adaption of new ethanol denaturation 2016/1867/EU

www.mn-net.com



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: MV 4.10.1 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