MACHEREY-NAGEL



Safety Data Sheet

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

REF: 931014	VISOCOLOR ECO Carbonate hardness	Page: 1/9
Printing date: 01.10.2019	Date of issue: 14.09.2018	

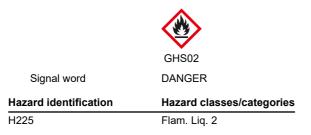
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier REF Product name	931014 VISOCOLOR ECO Carbona	ate hardness
	REACH Registration number(s): A registration number for the sub- the substance or its use is exclud		annual tonnage does not require registration or
		1 x 7 mL CH-1 2 x 30 mL CH-2	
1.2			e and uses advised against 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0
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	KG	E-mail: sds@mn-net.com (msds@mn-net.com)
1.4	Emergency telephone numbe	r	
	Outside Germany (DE): Call your r DE: Gemeinsames Giftinformation		Service or call local Life Saving Service. 99089 Erfurt tel. +49 361 730 730
	You find our current versions of SDS (22 la	nguages) in Internet: http:/	//www.mn-net.com/SDS
SECT	ION 2: Hazard identification	on	
2.0	Classification of the complete	e product	

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

2.1 Classification of the substance or mixture

7 mL CH-1



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

+33 388 68 22 68 +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: 931014	VISOCOLOR ECO Carbonate hardness	Page: 2/9
Printing date: 01.10.2019	Date of issue: 14.09.2018	

30 mL CH-2

Do not need labelling as hazardous

No hazard class

Signal word

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).

7 mL CH-1



Signal word: DANGER

30 mL CH-2

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties Flammable properties. -

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

7 mL CH-1

Chemical: meth	yl red (pH indicator)		CAS No.: 493-52-7
Classification:	No criteria for classification or	naming of chemical not required.	
Formula:	C ₁₅ H ₁₅ N ₃ O ₂		
Pseudonym:	4-(dimethylamino)-azobe	enzene-1,2'-carbonic acid	
TSCA Inventory:	listed		
EC No.:	207-776-1		
RTECS:	DG8960000	MFCD:	00002425
KE No.:	KE-06693		
Concentration:	< 0,10 %		
acc. CLP (GHS):	The criteria for classification ar	e not fulfilled.	

MACHEREY-NAGE (MN> ISO 9001 CERTIFIEI

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

www.mn-net.com



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

REF: 9	931014	VISOCOLOR ECO C	arbonate hardness	Page:
Printin	g date: 01.10.2019	Date of issue: 14.09.2	2018	
	Classification: ` Formula: Pseudonym: TSCA Inventory:	atured with 1%IPA/1%MEK, acc.2016 H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH ethyl alcohol, methylated spirit listed	/1867/EU)	CAS No.: 64-17-5
	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	01-2119457610-43-xxxx 200-578-6 KQ6300000 KE-13217 55 - <75 % H225, Flam. Liq. 2	Indice No.: MFCD:	603-002-00-5 00003568
	Chemical: <i>indic</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	ator dye(s) No criteria for classification or naming of ch all listed, <1% 0,1 - <1 % The criteria for classification are not fulfilled		CAS No.: -
	Classification: Formula: Pseudonym: TSCA Inventory:	ochloric acid H290, Met. Corr. 1, H314, Skin Co HCI•H ₂ O aqueous hydrogen chloride listed	rr. 1B, H331, Acute ⊺	CAS No.: 7647-01-0 Tox. 3 inh.
	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	01-2119484862-27-xxxx 231-595-7 MW4025000 KE-20189, >10% Toxic 97-1-203, / 0,1 - <1 % The criteria for classification are not fulfilled		017-002-01-X m.
3.3	Remarks	e edded with weter ICAS No. 7722 19	51 to 100%	
	List of H and P phrases: see	e added with water [CAS No. 7732-18 section 16.1	-ວງ ເບັ 100%.	
SEC	TION 4: First aid measu			
4.1	Description of first aid m	leasures Jer zone to fresh air immediately. Ensu	ıre quiet, warmth, an	d provide resuscitation if necessary. If
4.1.1	After SKIN Contact		membrane thoroug	hly under running water. (If possible) use

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. ---

4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---



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 +49 24 21 969-199 Fax: 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

www.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: 931014	VISOCOLOR ECO Carbonate hardness	Page: 4/9
Printing date: 01.10.2019	Date of issue: 14.09.2018	

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 DANGER: Highly flammable (GHS regulation). Forms explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. --
- 5.3 Advice for firefighters No, for listed product. Product package burns like paper or plastic. 5.4 Additional information

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Regular staff training is necessary.
- 6.2 **Environmental precautions** not necessary
- 6.3 Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. 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): 3 2 Water hazard class (DE):
- 7.2.1 Requirements for stock rooms and containers 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**

7 mL CH-1 Chemical: methyl red (pł	H indicator)	CAS No.: 493-52-7
Chemical: <i>ethanol</i> DNEL: DNEL = Derived No-Effect	[derm] 343 mg/kg; [inh] 950 mg/m³ : Level (for workers)	CAS No.: 64-17-5
PNEC(fresh water) : PNEC = Predicted No Effe	0.96 mg/L acted Concentration	
TRGS 900 (DE):	200 mL/m³ / 380 mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respir	4 (II), Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely	excluded / (Y) certainly excluded
SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted ave	500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit rela	ated to a 15-minute period
OSHA:	[TWA] 1000 ppm / 1900 mg/m³	

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: 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	1014	VISOCOLOR ECC) Carbonate hardness	Page: 5/9
Printing	date: 01.10.2019	Date of issue: 14.0	9.2018	
	Chemical: indicator of	ye(s)	CAS No.: -	
	30 mL CH-2 Chemical: <i>hydrochlor</i> DNEL: DNEL = Derived No-E	<i>ic acid</i> [inh] 8 mg/m³ iffect Level (for workers)	CAS No.: 7647-01-	0
	PNEC(fresh water) : PNEC = Predicted No	36 µg/L		
	EU value: TRGS 900 (DE):	[TWA] 5 ppm / 8 mg/m ³ ; [STEL] 1 2 mL/m ³ / 3 mg/m ³ E/e respirable	0 ppm/ 15 mg/m³	
	Short-term exposure fact skin resorptive (H), r	or: 2 (I), Y espiratory sensitizable (Sa), skin sensitizable (Sl	n), teratogenic (Z) not securely excluded / (Y) certainly e	xcluded
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted	2 ppm / 3* mg/m ³ [C] 5 ppm / 7 mg/m ³ average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA: mg/m³	List of highly hazardous chemical	s, toxics and reactives Yes (TQ = 5000 lbs) n	/a; TWA 5 ppm / 7
8.2	Exposure controls Good ventilation and extraction level of cleanliness must be n		chemicals with floor drainage and washing f	acilities. The highest
8.2.1	Respiratory protection No additional recommen	dations.		
8.2.2		N 374 (permeation time >30 min - level nes chemical resistant latex gloves with	2), consist of PVC, natural latex, Neopren, o a code EN 374-3 level 1.	r Nitril (f.ex. from Ansell
8.2.3	Eye protection Yes, safety glasses acco	rding EN 166 with integrated side shiel	ds or wrap-around protection.	
8.2.4	Skin protection Not necessary.			
8.2.5	with the skin, eyes and c	lothing. Rinse any clothing on which the	ork areas and at outdoor workplaces is prohit e substance has been spilled, and soak it in v eating, and then apply protective skin cream	water. Wash hands
SECTI	ON 9: Physical and	chemical properties		

9.1 Information on basic physical and chemical properties

7 mL CH-1 Appearance: liquid pH: Specific gravity:	Colour: red - 0,88 g/cm³	Odor: alcoholic
30 mL CH-2 Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 1-2 1,00 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** Substances are very volantile and form flammable vapour-air mixtures. ---



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.: +33 388 68 22 68 +49 24 21 969-199 Fax: 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

www.mn-net.com



REF: 9			SOCOLOR ECO Carbonate hardness	Page: 6/
Printing	g date: 01.10.2019	Dat	te of issue: 14.09.2018	
SECT	FION 10: Stability an	d 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 materia	ls		
In the original package all parts/all reap period under recommended conditions SECTION 11: Toxicological info 11.1 Information on toxicological		conditions. cal information blogical effects	s. Quantitative data on the toxicity of this product are not a	
	7 mL CH-1			
		ethyl red (pH indicator) listed ntory: KE-06693	CAS No.: 493-52-	-7
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms:	Eyes, skin, respirat	CAS No.: 64-17-5 California Proposition 65 List: not listed n, skin and/or eye contact tory system, central nervous system, liver, blood, reproduc , nose; headache, drowsiness, lassitude (weakness, exhau Canada CEPA 1999: DSL yes	tive system

LC50_{ihl rat} : [10h] 20 g/m³ LD50_{drm rbt} : 20 000 mg/kg LD50oral mouse : 3450 mg/kg K5, M5, R_F C TRGS 905 (DE): Chemical: CAS No.: indicator dye(s) **TSCA** Inventory: all listed, <1%

30 mL CH-2

Chemical: hyd	rochloric acid	CAS No.: 7647-01-0
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, inge	estion (solution), skin and/or eye contact
Target Organs:	Eyes, skin, res	piratory system
Symptoms:	irritation nose,	throat, larynx; cough, choking; dermatitis; solution: eye, skin burns; liquid: frostbite; in
animals: laryngeal spasm	; pulmonary ede	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japa	an PDSCL: Deleterious Substance
Japan ISHL:	listed ≥0,2%/≥0	0,1%, Article 57-2 (SDS required)

www.mn-net.com

MACHEREY-NAGE __{MN> ISO 9001 CERTIFIED

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



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

REF: 931014	VISOCOLOR ECO Carbonate hardness	Page: 7/9
Printing date: 01.10.2019	Date of issue: 14.09.2018	

South Korea TCCA: Accident Precaution Chemical Yes Korea Exist.Chem.Inventory: KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem. LD50_{orl rat} : 900 mg/kg LC50_{drm rbt}: >5010 mg/kg

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

	L CH-1		
	Chemical: methyl red (p	_ /	CAS No.: 493-52-7
	Water hazard class (DE):	2	
	Storage class (VCI):	12-13	
	Chemical: ethanol		CAS No.: 64-17-5
	PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	
	LC50daphnia magna/48h	>100 mg/L	
	LC50pimephales promelas/96h :	13400 - 15100 mg/L	
	LC50 _{leuciscus} idus/96h	[48h] 8140 mg/L	
	LC50 _{fish/96h} : EC50 _{daphnia/48h} :	13 g/L 9.3-14.2 g/L	
	IC50scenedesmus quadricauda/72h :	[7d] 5000 mg/L	
	EC10 _{pseudomonas putita/16h}	[EC5] 6500 mg/L	
	Water hazard class (DE):	1 WGK Ňo.: 0096	
	Dispersion coefficient(octanol-water):	-0.31	
	Storage class (VCI):	3	
	Chemical: indicator dye	(5)	CAS No.: -
	Storage class (VCI):	12-13	0/10/110
	Chemical: hydrochloric PNEC(fresh water) : PNEC = Predicted No Effected Concentration	36 µg/L	CAS No.: 7647-01-0
	LC50 _{fish/96h} : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI):	24.6 mg/L 0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238 8 B	
Dorsis	LC50 _{fish/96h} : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI):	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238	
	LC50 _{fish/96h} : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI): tence and degradability	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238	
not nece	LC50fish/96h : EC50daphnia/48h : EC50pseudokirchneriella subcapitata/72h Water hazard class (DE): Storage class (VCI): tence and degradability essary	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238	
not nece	LC50fish/96h : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI): tence and degradability essary cumulative potential	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238	
not nece Bioace not nece	LC50fish/96h : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI): tence and degradability essary cumulative potential essary	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238	
not nece Bioaco not nece Mobili	LC50 _{fish/96h} : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI): tence and degradability essary cumulative potential essary ty in soil	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238	
not nece Bioace not nece Mobili not nece	LC50fish/96h : EC50daphnia/48h : EC50pseudokirchneriella subcapitata/72h Water hazard class (DE): Storage class (VCI): tence and degradability essary cumulative potential essary ty in soil essary	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238 8 B	
not nece Bioacc not nece Mobili not nece Result	LC50 _{fish/96h} : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI): tence and degradability essary cumulative potential essary ty in soil	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238 8 B	
not nece Bioacc not nece Mobili not nece Result no data	LC50fish/96h : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI): tence and degradability essary cumulative potential essary ty in soil essary is of PBT and vPvB assess	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238 8 B	
not nece Bioacc not nece Mobili not nece Result no data Other	LC50 _{fish/96h} : EC50 _{daphnia/48h} : EC50 _{pseudokirchneriella subcapitata/72h} Water hazard class (DE): Storage class (VCI): tence and degradability essary cumulative potential essary ty in soil essary ts of PBT and vPvB assess available	0.492 mg/L : 0.78 mg/L 1 WGK No.: 0238 8 B	



12.2

12.3

12.4

12.5

12.6

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: +41 62 388 55 00 Tel.: +49 24 21 969-0 Tel.: Tel.: +33 388 68 22 68 +49 24 21 969-199 Fax: 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

www.mn-net.com

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: 931014 Printing date: 01.10.2019 VISOCOLOR ECO Carbonate hardness Date of issue: 14.09.2018 Page: 8/9

SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport information

14.1. UN number: 14.3. Class:		2. UN proper shipping 4. Packing group: II	
Road transport Classification code: Limited Quantity: Air transport	M11 acc. ADR	Tunnel restriction co 3.3.1/251: see LQ in Alter	de: E rnative declaration for transportation
PAX: CAO: Maritime transport	960 960	max. weight PAX: max. weight CAO:	10 KG 10 KG
EmS:	F-A, S-P	Storage category:	A
Or use Alternative o UN 1993 class 3 II, I			
or 14.1 UN number: 14.3 Class: Road transport	1993 14. 3 14.	· –	name: Flammable liquid, n.o.s. (ethanol mixture)
or 14.1 UN number: 14.3 Class: Road transport Classification code: Limited Quantity: Excepted Quantity:	1993 14.	2 UN proper shipping r	name: Flammable liquid, n.o.s. (ethanol mixture) de: E
or 14.1 UN number: 14.3 Class: Road transport Classification code: Limited Quantity:	1993 14. 3 14. F1 1 L	2 UN proper shipping r 4 Packing group: II Tunnel restriction coo	name: Flammable liquid, n.o.s. (ethanol mixture) de: E

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 H225
 Highly flammable liquid and vapour.

www.mn-net.com



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

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



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

REF: 931014		VISOCOLOR ECO Carbonate hardness	Page: 9/9		
Printing date: 01.10.2019		Date of issue: 14.09.2018			
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 advi Regular safety trai				
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				

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.

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 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 ACHEREY-NAGE DE/international: CH: FR: US: (MN> 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