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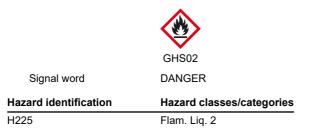
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier REF Product name	931014 VISOCOLOR ECO Carbona	ate hardness
	REACH Registration number(s): A registration number for the subs the substance or its use is exclude		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 Outside Germany (DE): Call your r DE: Gemeinsames Giftinformations	egional Poisons Information S	Service or call local Life Saving Service. 99089 Erfurt tel. +49 361 730 730
	You find our current versions of SDS (22 lar	nguages) in Internet: http:/	//www.mn-net.com/SDS
SECT	ION 2: Hazard identificatio	n	
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



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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: methy	l red (pH indicator)		CAS No.: 493-52-7
Classification:	No criteria for classification or r	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 an	e not fulfilled.	

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	Chamingly office			
	Classification: Formula: Pseudonym:	natured with 1%IPA/1%MEK, acc.201 H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH ethyl alcohol, methylated spirit	6/1867/EU)	CAS No.: 64-17-5
	TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	listed 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: indic	ator dye(s)		CAS No.: -
	Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	No criteria for classification or naming of c all listed, <1% 0.1 - <1 % The criteria for classification are not fulfille	·	
	30 mL CH-2			
	Chemical: hydr Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	ochloric acid H290, Met. Corr. 1, H314, Skin C HCI•H ₂ O aqueous hydrogen chloride listed 01-2119484862-27-xxxx 231-595-7 MW4025000 KE-20189, >10% Toxic 97-1-203, 0.1 - <1 % The criteria for classification are not fulfille	Indice No.: Acc. Precaution Ch	017-002-01-X
3.3	Remarks	e added with water [CAS No. 7732-1	8-51 to 100%	
		-	0-0] 10 100 /0.	
	List of H and P phrases: see	section 16.1		
SECT	FION 4: First aid measu	ires		
4.1	Description of first aid m Place insured person out of dang necessary contact medical advic	er zone to fresh air immediately. Ens	ure quiet, warmth, a	and provide resuscitation if necessary. If
4.1.1	After SKIN Contact Remove contaminated cloth soap.	ing. Rinse the affected skin or mucou	s membrane thorou	ghly under running water. (If possible) use
4.1.2	After EYE Contact After contact with the eyes r running water (protect intact		with the eyelid wide	open with eye washing bottle, eye douche or

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. ---



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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	l 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 cted 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 aver	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	

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	Chemical: indicator	dye(s)	CAS No.: -	
	30 mL CH-2 Chemical: <i>hydrochl</i> DNEL: DNEL = Derived No	o <i>ric acid</i> [inh] 8 mg/m³ -Effect Level (for workers)	CAS No.: 7647-01-0	
	PNEC(fresh water) : PNEC = Predicted N	36 µg/L		
	EU value: TRGS 900 (DE):	[TWA] 5 ppm / 8 mg/m ³ ; [2 mL/m ³ / 3 mg/m ³ E/e respirable	STEL] 10 ppm/ 15 mg/m³	
	Short-term exposure fa skin resorptive (H),		izable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excl	uded
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighte	[C] 5 ppm / 7 mg/m ³	rs, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA: mg/m³	List of highly hazardous cl	nemicals, toxics and reactives Yes (TQ = 5000 lbs) n/a	; TWA 5 ppm / 7
G		tion system in the room, floor res maintained at the workplace.	istant to chemicals with floor drainage and washing fac	ilities. The highest
8.2.1	Respiratory protectio No additional recomme			
8.2.2		EN 374 (permeation time >30 mi imes chemical resistant latex glo	n - level 2), consist of PVC, natural latex, Neopren, or N ves with code EN 374-3 level 1.	Nitril (f.ex. from Ansell
8.2.3	Eye protection Yes, safety glasses acc	cording EN 166 with integrated si	de shields or wrap-around protection.	
8.2.4	Skin protection Not necessary.			
8.2.5	with the skin, eyes and	clothing. Rinse any clothing on v	od in work areas and at outdoor workplaces is prohibit which the substance has been spilled, and soak it in wa d before eating, and then apply protective skin cream.	
SECTIO	N 9: Physical and	d chemical propertie	S	

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. ---

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SECT	ΓΙΟΝ 10: Stability an	d reactivity		
10.1	Reactivity no further data available.			
10.2	Chemical stability No known instability.			
10.3	Possibility of hazard No further data available.	ous reactions		
10.4	Conditions to avoid			
10.5	Incompatible materials			
10.6 SECT	Hazardous decompo In the original package all pa period under recommended	arts/all reagents are safe conditions.	ty and separated stored. Decompositions are not obse	rved during the expiration
11.1	Information on toxico	ological effects	s. Quantitative data on the toxicity of this product are r	not available.
	7 mL CH-1			
	Chemical: n TSCA Inventory: Korea Exist.Chem.Inve	nethyl red (pH indicator) listed ntory: KE-06693	CAS No.: 493	3-52-7
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: liver damage; anemia; I Australia NICNAS: Japan CSCL/PRTR:	Eyes, skin, respira irritation eyes, skin reproductive, teratogenic not listed not listed, Japan P	Canada CEPA 1999: DSL yes 2DSCL: not listed	oductive system
	Japan ISHL: South Korea TCCA:		6, Article 57-2 (SDS required)	

	liver damage; anemia; r	eproductive, teratogenic			
	Australia NICNAS:	not listed	Canada CEPA 1999:	DSL yes	
	Japan CSCL/PRTR:	not listed, Japan F	DSCL: not listed		
	Japan ISHL:	listed ≥0,1%/≥0,1%	6, Article 57-2 (SDS required)		
	South Korea TCCA:	not listed			
	Korea Exist.Chem.Inve				
	LD50 _{orl rat} :	6200 mg/kg			
	LC_Low _{ihl gpg} :	21.9 g/m³			
	LC_Low _{orl hmn} :	1400 mg/kg			
	LC50 _{ihl mouse} :	[4h] 39 g/m³			
	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: in	dicator dye(s)		CAS No.: -	
	TSCA Inventory:	all listed, <1%			
~~					
30	mL CH-2				
	Chemical: hy	drochloric acid		CAS No.: 7647-01-0	
	TSCA Inventory:	listed	California Proposition 65 List	: not listed	
	Exposure Routes:	inhalation, ingestic	on (solution), skin and/or eye con	tact	
	Target Organs:	Evoc skin rospira	tony system		

I SCA Inventory.	listeu	California Froposition of List	
Exposure Routes:	inhalation, ingestion (s	olution), skin and/or eye cont	act
Target Organs:	Eyes, skin, respiratory	system	
Symptoms:	irritation nose, throat, I	arynx; cough, choking; derma	atitis; solution: eye, skin burns; liquid: frostbite; in
animals: laryngeal spasm; pu	Ilmonary ede		
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDS	CL: Deleterious Substance	
Japan ISHL:	listed ≥0,2%/≥0,1%, A	rticle 57-2 (SDS required)	

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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.

7 m	L CH-1			
		methyl red (pH	,	CAS No.: 493-52-7
	Water hazard class (E)E):	2 12-13	
	Storage class (VCI):		12-13	
	Chemical:	ethanol		CAS No.: 64-17-5
	PNEC(fresh water) : PNEC = Predicted No Effect	cted Concentration	0.96 mg/L	
	LC50daphnia magna/48h		>100 mg/L	
	LC50pimephales promela	s/96h	13400 - 15100 mg/L	
	LC50 _{leuciscus idus/96} h:		[48h] 8140 mg/L 13 g/L	
	LC50 _{fish/96h} : EC50 _{daphnia} /48h :		9.3-14.2 g/L	
	IC50scenedesmus quadrie	cauda/72h	[7d] 5000 mg/L	
	EC10 _{pseudomonas putita}	/16h	[EC5] 6500 mg/L	
	Water hazard class (E	DE):	1 WGK No.: 0096	
	Dispersion coefficient	(octanol-water):	-0.31	
	Storage class (VCI):		3	
	Chemical:	indicator dye(s)	CAS No.: -
	Storage class (VCI):		12-13	0/10/10::
	PNEC (fresh water) : PNEC = Predicted No Effect LC50fish/96h : EC50daphnia/48h : EC50pseudokirchneriella Water hazard class ([Storage class (VCI):	subcapitata/72h :	36 μg/L 24.6 mg/L 0.492 mg/L 0.78 mg/L 1 WGK No.: 0238 8 B	
Persis	tence and degrad	dability		
not nece	ssary			
Bioaco	cumulative poten	tial		
not nece	ssary ·			
Mobili	ty in soil			
not nece	•			
	,	D	4	
	s of PBT and vPv	/B assessm	ient	
	adverse effects			
no additi	onal data available			



12.2

12.3

12.4

12.5

12.6

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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.

Chemical safety assessment 15.2

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 Highly flammable liquid and vapour. H225

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16.1.2	List of relevant P phrases				
	P210 P233	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed.			
6.2	Training advice				
	Regular safety training				
16.3	Recommended restriction on use				
	Only for professional us	Ser.			

An individual package of this product or test kit has a moderate hazardous potential.

16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

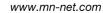
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16.5 Sources of key data

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 2017-08 Adaption of new ethanol denaturation 2016/1867/EU



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