MACHEREY-NAGEL



Safety Data Sheet

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

REF: 985838	NANOCOLOR Ethanol 1000	Page: 1/9
Printing date: 02.06.2020	Date of issue: 26.09.2018	

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

	Product identifier	
	REF	985838 NANGOOLOD Ethand 4000
	Product name	NANOCOLOR Ethanol 1000
	-	(s): see SECTION 3.1/3.2 or he substance(s) does not exist because the annual tonnage does not require registration or excluded from registration.
		23 x 9 mg Ethanol R0, lyophilizied (R0) 2 x 60 mL Ethanol R1 1 x 6 mL Ethanol R2 1 x 10 mL Ethanol R3
1.2	Relevant identified uses Product for analytical use. Exposure Scenario Cl	of the substance or mixture and uses advised against lassification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 io is integrated into sections 1-16.
1.3	Details of the supplier of Manufactured by: MACHEREY-NAGEL GmbH Neumann-Neander-Str. 6-8, 5 Tel.: +49 2421 969 0	& Co. KG
1.4	Emergency telephone nu Information not necessary.	mber
1.4		
SEC ⁻	Information not necessary. You find our current versions of SDS	S (22 languages) in Internet: http://www.mn-net.com/SDS
SEC ⁻	Information not necessary. You find our current versions of SDS	S (22 languages) in Internet: http://www.mn-net.com/SDS
SEC ⁻	Information not necessary. You find our current versions of SDS	S (22 languages) in Internet: http://www.mn-net.com/SDS
SEC ⁻	Information not necessary. You find our current versions of SDS TION 2: Hazard identific Classification of the com	s (22 languages) in Internet: http://www.mn-net.com/SDS
SEC ⁻ 2.0	Information not necessary. You find our current versions of SDS TION 2: Hazard identific Classification of the com Hazard identification	s (22 languages) in Internet: http://www.mn-net.com/SDS station plete product - Hazard classes/categories Met. Corr. 1
SEC ⁻ 2.0	Information not necessary. You find our current versions of SDS TION 2: Hazard identific Classification of the com Hazard identification H290	s (22 languages) in Internet: http://www.mn-net.com/SDS mation plete product - Hazard classes/categories Met. Corr. 1 stance or mixture
SEC ⁻ 2.0	Information not necessary. You find our current versions of SDS TION 2: Hazard identific Classification of the com Hazard identification H290 Classification of the subs	s (22 languages) in Internet: http://www.mn-net.com/SDS mation plete product - Hazard classes/categories Met. Corr. 1 stance or mixture
SEC ⁻ 2.0	Information not necessary. You find our current versions of SDS TION 2: Hazard identific Classification of the com Hazard identification H290 Classification of the subs 9 mg Ethanol R0, lyophilizio	s (22 languages) in Internet: http://www.mn-net.com/SDS mation plete product - Hazard classes/categories Met. Corr. 1 stance or mixture ed (R0)
SEC ⁻ 2.0	Information not necessary. You find our current versions of SDS TION 2: Hazard identific Classification of the comp Hazard identification H290 Classification of the subs 9 mg Ethanol R0, lyophilizio Signal word	s (22 languages) in Internet: http://www.mn-net.com/SDS ation plete product - Hazard classes/categories Met. Corr. 1 stance or mixture ed (R0)
1.4 SEC ⁻ 2.0 2.1	Information not necessary. You find our current versions of SDS TION 2: Hazard identific Classification of the comp <u>Hazard identification</u> H290 Classification of the subs 9 mg Ethanol R0, lyophilizion Signal word No hazard class	s (22 languages) in Internet: http://www.mn-net.com/SDS mation plete product - Hazard classes/categories Met. Corr. 1 stance or mixture ed (R0)



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6 mL Ethanol R2		
	Do not need labelling as hazardous	
Signal word	-	
No hazard class		
10 mL Ethanol R3		
	Do not need labelling as hazardous	
Signal word	-	
Hazard identification	Hazard classes/categories	
H290	Met. Corr. 1	

2.2 Label elements

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).

9 mg Ethanol R0, lyophilizied (R0)

Do not need labelling as hazardous Signal word: -

60 mL Ethanol R1

Do not need labelling as hazardous Signal word: -

6 mL Ethanol R2

Do not need labelling as hazardous Signal word: -

10 mL Ethanol R3

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. The sentence H290 "May be corrosive to metals." has only relevance for longer transportation time of larger amounts. The labelling GHS05 would be creating an "OVERLABELLING" (see GHS Directive 1272/2008/EC Annex I, chapter 1.5.2.1.3.). ---

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

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

9 mg Ethanol R0, lyophilizied (R0)



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REF: 985838			OR Ethanol 1000		Page: 3
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Chemica	al: peroxi	dase		CAS No.: 9003-99-0	
Classific		No criteria for classification or na	ming of chemical not required.		
Formula	:	Enzyme Comm. No. 1.11.			
TSCA In	ventory:	listed	ů.		
EC No.:		232-668-6	MFCD:	00071339	
Concent		< 1.00 %			
acc. CLF	P (GHS):	The criteria for classification are	not fulfilled.		
Chemica		acid, sodium salt		CAS No.: 9005-38-3	
Classific		No criteria for classification or na		00004040	
TSCA In		listed 10 - <100 %	MFCD:	00081310	
Concent					
acc. CLF	- (GHS).	The criteria for classification are	not fulfilled.		
60 mL Ethanol R					
Chemica		droxymethyl)aminomethane		CAS No.: 77-86-1	
Classific		No criteria for classification or na	ming of chemical not required.		
Formula		C ₄ H ₁₁ NO ₃			
Pseudor			ydroxymethyl)-1,3-propanediol		
TSCA In	ventory: Reg. No.:	listed 01-2119957659-16-0014			
EC No.:	ixey. 110	201-064-4			
RTECS:		TY2900000	MFCD:	00004679	
KE No.:		KE-01403			
Concent	ration:	1 - <3 %			
acc. CLF		The criteria for classification are	not fulfilled.		
6 ml. Ethenel D2					
6 mL Ethanol R2 Chemica		nethylbenzidine		CAS No.: 54827-17-7	
Classific		•	ming of chemical not required	CAS NO.: 54627-17-7	
Formula		No criteria for classification or na $C_{16} H_{20} N_2$	iming of chemical not required.		
Pseudor		3,3',5,5'-tetramethyl-[1,1'-k	piphenyl]-4.4'-diamine		
TSCA In		listed			
EC No.:	,	259-364-6			
RTECS:		DV2300000	MFCD:	00007778	
Concent	ration:	< 1.00 %			
acc. CLF	P (GHS):	The criteria for classification are	not fulfilled.		
Chemica	al: <i>dimetl</i>	nyl sulfoxide		CAS No.: 67-68-5	
Classific	ation:	No criteria for classification or na	ming of chemical not required.		
Formula	:	C ₂ H ₆ OS	3		
Pseudor		DMSO, 1,1'-sulfinylbis-me	thane		
TSCA In		listed			
	Reg. No.:	01-2119431362-50-xxxx			
EC No.:		200-664-3		00000000	
RTECS:		PV6210000	MFCD:	00002089	
KE No.:	ration	KE-32367			
Concent		60 - <80 %			
acc. CLF	- (GHS):	The criteria for classification are	not fulfilled.		
10 mL Ethanol R	-				
Chemica	,	chloric acid		CAS No.: 7647-01-0	
Classific			Skin Corr. 1B, H331, Acute To:	x. 3 inn.	
Formula Pseudor		HCI•H ₂ O aqueous hydrogen chlorid	A		
TSCA In		listed	C		
	Reg. No.:	01-2119484862-27-xxxx			
EC No.:		231-595-7	Indice No.:	017-002-01-X	
RTECS:		MW4025000			
KE No.:			-1-203, Acc. Precaution Chem.		
Concent	ration:	1 - <10 %			
acc. CLF	P (GHS):	H290, Met. Corr. 1			
.3 Remarks					



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When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

- - -

SECTION 4: First aid measures

4.1	Description of first aid measures
	Place insured person out of danger zone to fresh air immediately.
4.1.1	After SKIN Contact Not necessary.
4.1.2	After EYE Contact Not necessary.
4.1.3	After INHALATION of vapours Not necessary
4.1.4	After ORAL Intake Not necessary
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
SEC	FION 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 None.
- 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. Not necessary.
- 6.2 **Environmental precautions** not necessary
- 6.3 Methods and material for containment and cleaning up Clean working area with water. Flush used 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. Use a safety bottle when shaking test tubes.

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): 3

7.2.1 Requirements for stock rooms and containers

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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**

9 mg Ethan Chemical:	ol R0, lyophiliz peroxidase	ied (R0)	CAS No.: 9003-99-0
Chemical:	alginic acid, s	odium salt	CAS No.: 9005-38-3
60 mL Etha	nol R1		
Chemical: DNEL: DNEL		e <i>thyl)aminomethane</i> [derm] 166.7 mg/kg bw/day; [inh] 117.5 mg/m³ ^{t Level (for workers)}	CAS No.: 77-86-1
PNEC(fresh v PNEC	vater) : c = Predicted No Effe	no data mg/L ected Concentration	
NIOSH: [TWA]] Time-weighted ave	not listed erage to a reference period of 8 hours, [STEL] Short-term exposure lin	mit related to a 15-minute period
OSHA:		not listed	
6 mL Ethan	ol R2		
Chemical:	tetramethylbe	nzidine	CAS No.: 54827-17-7
Chemical: DNEL: DNEL	<i>dimethyl</i> sulfo	ox <i>ide</i> 394 _{inh} mg/m³ t Level (for workers)	CAS No.: 67-68-5
PNEC	vater) : C = Predicted No Effe	17 mg/L ected Concentration	
TRGS 900 (DE):	50 ppm / 160 mg/m³ E/e respirable	
	exposure factor: resorptive (H), respi	2 (I), H, Z ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not se	curely excluded / (Y) certainly excluded
SUVA(CH)	MAK value:	50 ppm / 160 mg/m³	
10 mL Etha	nol R3		
Chemical: DNEL: DNEL	hydrochloric a	a <i>cid</i> [inh] 8 mg/m³ t Level (for workers)	CAS No.: 7647-01-0
PNEC(fresh v PNEC	vater) : c = Predicted No Effe	36 μg/L ected Concentration	
EU value: TRGS 900 (DE):	[TWA] 5 ppm / 8 mg/m ³ ; [STEL] 10 ppm/ 15 mg/m ³ 2 mL/m ³ / 3 mg/m ³ E/e respirable	
<u> </u>	. .		

Short-term exposure factor: 2 (I), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 2 ppm / 3* mg/m³ : [C] 5 ppm / 7 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period NIOSH: OSHA: List of highly hazardous chemicals, toxics and reactives Yes (TQ = 5000 lbs) n/a; TWA 5 ppm / 7 mg/m³

8.2 **Exposure controls**

Not necessary.Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

8.2.1 **Respiratory protection**

Not necessary.

8.2.2 Hand protection Not necessary.

8.2.3 Eye protection

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	Not necessary.			
8.2.4	Skin protection Not necessary.			
3.2.5	Personal hygiene Information not necessary.			
SECTI	ON 9: Physical and chem	ical properties		
9 .1	Information on basic physica	l and chemical propert	ies	
	9 mg Ethanol R0, Iyophilizied (R Appearance: solid pH: Solubility in water:	0) Colour: colourless 7-7,5 0-100 %	Odor: fusty, mouldy	
	60 mL Ethanol R1 Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 7,2 1,0 g/cm³ 0-100 %	Odor: odorless	
	6 mL Ethanol R2 Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1,06 g/cm³	Odor: fusty, mouldy	
	10 mL Ethanol R3 Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 0-1 1,02 g/cm³ 0-100 %	Odor: odorless	
9.2	Other information Data for the other parameters of the minimative Relevant Properties of Substance Gr		use no registration and no chemical safety rep	port is required.

SECTION 10: Stability and reactivity

10.1	Reactivity None
10.2	Chemical stability No known instability.
10.3	Possibility of hazardous reactions None.
10.4	Conditions to avoid Not known. Observe labeled storage temperature
10.5	Incompatible materials Not known.
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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SECT	ION 11: Toxicolog	gical informatior	1		
11.1	Information on toxi Following information is	-	ces. Quantitative data on the toxicity of	this product are not available.	
	9 mg Ethanol R0, lyophilizied (R0)				
	Chemical: TSCA Inventory:	peroxidase listed		CAS No.: 9003-99-0	
	Chemical: TSCA Inventory:	alginic acid, sodium salt listed		CAS No.: 9005-38-3	
	60 mL Ethanol R1				
	Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50 _{orl rat} :	not listed not listed	omethane California Proposition 65 List: not Canada CEPA 1999: DSL PDSCL: not listed		
	6 mL Ethanol R2				
	Chemical: TSCA Inventory: LD50 _{ipr rat} :	<i>tetramethylbenzidine</i> listed 135 mg/kg		CAS No.: 54827-17-7	
	Chemical: TSCA Inventory: Korea Exist.Chem.In LD50 _{orl rat} : LD50 _{drm rat} :	dimethyl sulfoxide listed ventory: KE-32367 14.5 g/kg 40 g/kg		CAS No.: 67-68-5	
	10 mL Ethanol R3				
	Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA:	Eyes, skin, respi irritation nose, th pasm; pulmonary ede not listed not listed, Japan listed ≥0,2%/≥0, Accident Precau		solution: eye, skin burns; liquid: frostbite; in Yes	
SECT	ION 12: Ecologica	al information			
12.1	Toxicity Following information is valid for pure substances.				
	9 mg Ethanol R0, ly Chemical: Water hazard cl Storage class (\	peroxidase ass (DE): 1	WGK No.: n.n.	CAS No.: 9003-99-0	



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Printing date: 02.06.2020 Date of issue: 26.09.2018 Chemical: alginic acid, sodium salt 60 mL Ethanol R1 no data mg/L Chemical: tris(hydroxymethyl)aminomethane PNEC(fresh water) : no data mg/L PNEC = Predicted No Effected Concentration LC50fish/96h : LD0 (4d): 1-10 g/L EC50pseudokirchneriella subcapitata/72h : 397;48h: 473 mg/L	CAS No.: 9005-38-3 CAS No.: 77-86-1
60 mL Ethanol R1 Chemical: tris(hydroxymethyl)aminomethane PNEC(fresh water): no data mg/L PNEC = Predicted No Effected Concentration LC50fish/96h: LD0 (4d): 1-10 g/L	
Chemical: tris(hydroxymethyl)aminomethane PNEC(fresh water) : no data mg/L PNEC = Predicted No Effected Concentration LC50fish/96h : LC50fish/96h : LD0 (4d): 1-10 g/L	CAS No.: 77-86-1
LC50 _{fish/96h} : LD0 (4d): 1-10 g/L	
EC10 _{pseudomonas putita/16} h : 1 _{3h} g/L Water hazard class (DE): 2 Dispersion coefficient _{(octanol-water}) : -1.56 Storage class (VCI): 12-13	
6 mL Ethanol R2 Chemical: <i>tetramethylbenzidine</i> Water hazard class (DE): 3 Storage class (VCI): 12-13	CAS No.: 54827-17-7
Chemical: <i>dimethyl sulfoxide</i> PNEC(fresh water) : 17 mg/L PNEC = Predicted No Effected Concentration	CAS No.: 67-68-5
LC50 _{fish/96h} : 38.5 g/L EC50 _{daphnia/48h} : 24.6 g/L EC10 _{pseudomonas putita/16h} : EC/16h: 7100 mg/L Water hazard class (DE): 1 WGK No.: 5050 Dispersion coefficient(_{octanol-water}): -1.35 Storage class (VCI): 12	
10 mL Ethanol R3 Chemical: <i>hydrochloric acid</i> PNEC(fresh water) : 36 µg/L PNEC = Predicted No Effected Concentration	CAS No.: 7647-01-0
LC5024.6 mg/LEC500.492 mg/LEC500.492 mg/LEC500.78 mg/LWater hazard class (DE):1Storage class (VCI):8 B	
2.2 Persistence and degradability not necessary	
2.3 Bioaccumulative potential not necessary	
2.4 Mobility in soil not necessary	
2.5 Results of PBT and vPvB assessment no data available	
2.6 Other adverse effects no additional data available	
SECTION 13: Disposal considerations	

Not necessary. 13.1

Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.



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SECTION 14: Transport information

14.1 - 14.4 Not necessary

- 14.5 Environmental hazards
- 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 MN Leaflet/User manual, also see www.mn-net.com Look for your country-specific regulations.

15.2 Chemical safety assessment

SECTION 16: Other information

16.1 List of H and P phrases

- 16.1.1 List of relevant H phrases H290 May be corrosive to metals.
- 16.1.2
 List of relevant P phrases

 P390
 Absorb spillage to prevent material damage.

16.2 Training advice

Regular safety training.

16.3 Recommended restriction on use

None

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



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