# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 915010	VISOCOLOR HE Calcium CA 20	Page: 1/11
Printing date: 01.10.2019	Date of issue: 15.03.2019	

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

1.1 Product identifie	r
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REF Product name 915010 VISOCOLOR HE Calcium CA 20

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 10 mL Indicator CA 20
1 x 25 mL Soda lye 10 %

1 x 100 mL TL CA 20

### 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

#### 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

E-mail: sds@mn-net.com (msds@mn-net.com)

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product



Signal word	DANGER		
Hazard identification	Hazard classes/categories		
H226 H290 H314 H315 H319	Flam. Liq. 3 Met. Corr. 1 Skin Corr. 1A Skin Irrit. 2 Eye Irrit. 2		

### 2.1 Classification of the substance or mixture

### 10 mL Indicator CA 20





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Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226 H315 H319	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2	
25 mL Soda lye 10 %		
	GHS05	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H290 H314	Met. Corr. 1 Skin Corr. 1A	
100 mL TL CA 20		
Signal word	Do not need labelling as hazardous -	

No hazard class

### 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). 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).

### 10 mL Indicator CA 20



Signal word: WARNING

### 25 mL Soda lye 10 %



Signal word: DANGER

H314 Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310 Do not breathe dust/vapours. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower]. 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.



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### 100 mL TL CA 20

Do not need labelling as hazardous Signal word: -

#### 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. Flammable properties. H290 "May be corrosive to metals." has only relevance for higher concentrations and larger amounts. The labelling GHS05 would be creating an "OVERLABELLING" (see GHS Directive 1272/2008/EC Annex I, chapter 1.5.2.1.3., until 125 mL no labelling necessary). ---

### 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.

### Information pertaining to particular risks to the environment

Avoid conta	act of substance/mixture to environment.
PBT:	not applicable
vPvB:	not applicable
Other haza	ards

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

### 10 mL Indicator CA 20

Chemical: trietha	nolamine		CAS No.: 102-71-6
Classification:	H315, Skin Irrit. 2, H319, Eye Irrit. 2	, H335, STOT SE 3	
Formula:	C <sub>6</sub> H <sub>15</sub> NO <sub>3</sub>		
Pseudonym:	2,2',2"-nitrilotriethanol, tris(2-hydrox	yethyl)amine	
TSCA Inventory:	listed	,	
REACH Reg. No.:	01-2119486482-31-xxxx		
Dual-use:	The application of this chemical is e	exempt from the regula	tion 2017/2268/EU (see IC350 remark 4).
EC No.:	203-049-8		· · · · · · · · · · · · · · · · · · ·
RTECS:	KL9275000		
KE No.:	KE-25940		
Concentration:	10 - <20 %		
acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye Irrit. 2		
	ncarboxylic acid		CAS No.: 3737-95-9
Classification:	No criteria for classification or naming of che	mical not required.	
Formula:	C <sub>21</sub> H <sub>14</sub> N <sub>2</sub> O <sub>7</sub> S* 2H <sub>2</sub> O		
Pseudonym:	6,	droxy-1-(2-hydroxy-4-s	ulfo-1-naphthylazo)-3-naphthoic acid
TSCA Inventory:	listed		
EC No.:	223-117-0	MFCD:	00004078
Concentration:	0,1 - <1 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		
Chamiesle sthem	- 1		CAC No. : C4 47 5
Chemical: ethan			CAS No.: 64-17-5
Classification:	tured with 1%IPA/1%MEK, acc.2016/	1007/EU)	
Formula:	H225, Flam. Liq. 2		
	$C_2 H_6 O; C_2 H_5 OH$		
Pseudonym:	ethyl alcohol, methylated spirit listed		
TSCA Inventory: REACH Reg. No.:	01-2119457610-43-xxxx		
EC No.:	200-578-6	Indice No.:	603-002-00-5
RTECS:	KQ6300000	MFCD:	00003568
KE No.:	KG0300000 KE-13217	NFCD.	00003308
Concentration:	35 - <55 %		
• • • • • • • • • • • • • • • • • • • •			
acc. CLP (GHS):	H226, Flam. Liq. 3		

25 mL Soda lye 10 %



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Printing date: 01.10.2019	Date of issue: 15.03.2019			
Chemical: sodi Classification:	um hydroxide solution H290, Met. Corr. 1, H314, Skir	Corr. 1B	CAS No.: 1310-73-2	
Formula: Pseudonym:	NaOH•H <sub>2</sub> O soda lye			
TSCA Inventory:	listed			
REACH Reg. No.: EC No.: RTECS:	01-2119457892-27-xxxx 215-185-5 WB4900000	Indice No.:	011-002-00-6	
KE No.: Concentration:	KE-31487 10 - <20 %			
acc. CLP (GHS):	H290, Met. Corr. 1, H314, Skir	Corr. 1B		
100 mL TL CA 20				
Classification: Formula: TSCA Inventory:	lendinitrilo tetraacetic acid, di Na-s H332, Acute Tox. 4 inh., H373, C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub> •2 H <sub>2</sub> O listed (CAS 139-33-3)		CAS No.: 6381-92-6	
EC No.: RTECS: Concentration:	205-358-3 AH4410000; AH4375000 0,1 - <1 %	MFCD:	00150037	
acc. CLP (GHS):	The criteria for classification are not fu	lfilled.		

#### 3.3 Remarks

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 immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

#### After INHALATION of vapours 4.1.3

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. ---

#### After ORAL Intake 4.1.4

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences. --

#### 4.2 Most important symptoms and effects, both acute and delayed

#### 4.3 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. 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. After INTAKÉ administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. ---

## 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.



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#### 5.2 Special hazards arising from the substance or mixture

WARNING: Flammable (GHS regulation). May form 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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment. For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and

sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

### 5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

## SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). 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

see information in section 5.4 ---

## 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. Use inbreakable container for transport of glass bottles. Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

7.3

10 mL Indicator CA 20 Chemical: triethanolamine CAS No.: 102-71-6 DNEL: [derm] 6.3; [inh] 5 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 0.32 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): DFG: 5 E mg/m<sup>3</sup> E/e respirable Short-term exposure factor: I, (2) skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: [MAK] 5 e/[STEL] 10 e mg/m3 NIOSH: not listed [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed



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)		VISOCOLOR HE Calciu		Page: 6/11
: 01.10.2019		Date of issue: 15.03.201	9	
Chemical:	calconcarboxylic	c acid	CAS No.: 3737-95-9	
Chemical: DNEL:			CAS No.: 64-17-5	
TRGS 900 (	DE): 2	200 mL/m³ / 380 mg/m³		
skin r SUVA(CH) I NIOSH: [TWA	resorptive (H), respirato MAK value: 5 [ ] Time-weighted average	ory sénsitizable (Sa), skin sensitizable (Sh), terato 500 ppm / 960 mg/m³ TWA] 1000 ppm / 1900 mg/m³ je to a reference period of 8 hours, [STEL] Short-		
OSHA:	[	TWA] 1000 ppm / 1900 mg/m³		
Chemical: DNEL:	sodium hydroxic	inh] 1 mg/m³	CAS No.: 1310-73-2	
	DE): 2	2 mg/m <sup>3</sup>		
			genic (Z) not securely excluded / (Y) certainly excluded	
NIOSH: (	2	2 mg/m³	erm exposure limit related to a 15-minute period	
OSHA:				
Chemical: DNEL: <sub>DNEL</sub>	<i>ethylendinitrilo te</i> [ _ = Derived No-Effect Le	inh] 1.5 mg/m <sup>3</sup> evel (for workers)	CAS No.: 6381-92-6	
PNEC	= Predicted No Effecte	ed Concentration		
xposure co	ontrols			
			icals with floor drainage and washing facilities. T	he highest
		s.		
Yes, gloves	according EN 374			κ. from Ansel
		EN 166 with integrated side shields or v	vrap-around protection or face protection.	
•		ng damage, and to avoid contamination	with these hazards.	
Eating, drin with the skir	king, smoking, takin n, eyes and clothing	g. Rinse any clothing on which the subs	tance has been spilled, and soak it in water. Was	
N 9: Phys	ical and che	emical properties		
formation	on basic nhys	ical and chemical properties		
	Chemical: DNEL: DNEL PNEC(fresh v PNEC TRGS 900 ( Short-term e skin i SUVA(CH) NIOSH: DNEL: DNEL: DNEL: DNEL: DNEL: TRGS 900 ( Short-term e skin i SUVA(CH) NIOSH: (TWA OSHA: <b>100 mL TL</b> Chemical: DNEL: DNEL: DNEL: DNEL PNEC (fresh v PNEC (fresh v PNEC Cood ventilation /el of cleanline <b>Respiratory</b> No additionat <b>Hand prote</b> Yes, gloves or KCL). Us <b>Eye proteci</b> Yes, safety <b>Skin proteci</b> Recomment <b>Personal h</b> Eating, drinl with the skir thoroughly v <b>S Phys</b>	Chemical: calconcarboxylic Chemical: ethanol DNEL: [ DNEL = Derived No-Effect La PNEC(fresh water): C PNEC = Predicted No Effect La PNEC = Predicted No Effect La Short-term exposure factor: A skin resorptive (H), respirato SUVA(CH) MAK value: E NIOSH: [ TRGS 900 (DE): [ Short-term exposure factor: ( SUVA(CH) MAK value: [ DNEL = Derived No-Effect La TRGS 900 (DE): [ Short-term exposure factor: ( skin resorptive (H), respirato SUVA(CH) MAK value: 2 NIOSH: [ DNEL = Derived No-Effect La TRGS 900 (DE): [ Short-term exposure factor: ( skin resorptive (H), respirato SUVA(CH) MAK value: 2 NIOSH: [ DNEL = Derived No-Effect La TRGS 900 (DE): [ Chemical: ethylendinitrilo ta DNEL: [ DNEL = Derived No-Effect La PNEC = Predicted No Effect La <b>A espiratory protection</b> No additional recommendation Hand protection Recommended to avoid clothin Personal hygiene Eating, drinking, smoking, takin with the skin, eyes and clothing thoroughly with soap and wate	Chemical: calconcarboxylic acid Chemical: ethanol DNEL: Derived No-Effect Level (for workers) PNEC (treat water): 0.96 mg/L PNEC = Predicted No Effect Concentration TRGS 900 (DE): 200 mL/m <sup>3</sup> / 380 mg/m <sup>3</sup> E/e respirable Short-term exposure factor: 4 (I), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), terato SUVA(CH) MAK value: 500 ppm / 960 mg/m <sup>3</sup> [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] 1000 ppm / 1900 mg/m <sup>3</sup> [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] 1000 ppm / 1900 mg/m <sup>3</sup> PNEL = Derived No-Effect Level (for workers) TRGS 900 (DE): 2 mg/m <sup>3</sup> E/e respirable Short-term exposure factor: (=1-, Y) skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), terato SUVA(CH) MAK value: 2 e mg/m <sup>3</sup> [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short- OSHA: [TWA] 2 mg/m <sup>3</sup> NOSH: 2 mg/m <sup>3</sup> NEL = Derived No-Effect Level (for workers) PNEC(freat water) 2 .2 mg/L PNEC = Predicted No Effect Concentration <b>Xeposure controls</b> Dod ventilation and extraction system in the room, floor resistant to chemical of cleanliness must be maintained at the workplace. <b>Respiratory protection</b> No additional recommendations. <b>Hand protection</b> Yes, gloves according EN 374 (permeation time >30 min - level 2), color or KCL). Use for short times chemical resistant latex gloves with code <b>Eye protection</b> Yes, safety glasses according EN 166 with integrated side s	Chemical: calconcarboxylic acid CAS No.: 3737-95-9 Chemical: ethanol DNEL: [derm] 343 mg/kg; [inh] 950 mg/m <sup>3</sup> DNEL = Derived No: Effect Level for workers) PNEC great waten : 0.96 mg/L PNEC = Prediceta No Effected Concentration TRGS 900 (DE): 200 mL/m <sup>2</sup> 380 mg/m <sup>3</sup> Extremption (PN, respirately sensitizable (Sh), start openic (Z) not securely excluded / (Y) certainty excluded SUVA(CH) MAK value: 500 ppm / 960 mg/m <sup>3</sup> ITWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: [TWA] 1000 ppm / 1900 mg/m <sup>3</sup> Extremption (PN, respirately calculated) Source Controls Suvary (PN, respirately calculated) Suvary (PN, NoEffect Level for workers) TRGS 900 (DE): 2 mg/m <sup>3</sup> EV respirately calculated (C), start openice (C) not securely excluded / (Y) certainty excluded Suvary (PN, NoEffect Level for workers) Short-term exposure factor: (=1, Y) Short-term exposure factor: (=1, Y) Short

10 mL Indicator CA 20		
Appearance: liquid	Colour: colored	Odor: alcoholic
Flash point:	24 °C	



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REF: 915010		VISOCOLOR HE Calcium CA 20		Page: 7/11		
Printing date: 01.10.2019		Date of issue: 15.03.2019				
	<b>25 mL Soda lye 10 %</b> Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 14 1,11 g/cm³ 0-100 %	Odor: odorless			
	<b>100 mL TL CA 20</b> Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 9-10 1,0 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 					
SECT	ION 10: Stability and re	eactivity				
10.1	<b>Reactivity</b> no further data available.					
10.2	Chemical stability No known instability.					
10.3	Possibility of hazardous i					

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.

### 10 mL Indicator CA 20

Chemical:	triethanola	mine		CAS No.: 102-71-6
TSCA Inventory:	list	ted	California Proposition 65 List: not list	sted
Australia NICNAS:	no	t listed	Canada CEPA 1999: DSL Y	/es
Japan CSCL/PRTR:	PA	AC Yes, Japan PDS	CL: not listed	
Japan ISHL:	list	ted ≥0,1%/≥0,1%, A	Article 57-2 (SDS required)	
South Korea TCCA:	no	t listed		
Korea Exist.Chem.In	ventory: KE	-25940		
LD50 <sub>orl rat</sub> :	> {	5000 mg/kg		
LD50 <sub>drm rbt</sub> :	> 2	2000 mg/kg		
Chemical:		boxylic acid		CAS No.: 3737-95-9
TSCA Inventory:	lis	ted		
Chemical:	ethanol			CAS No.: 64-17-5
TSCA Inventory:	list	ted	California Proposition 65 List: not lis	sted
ACGIH:	10	00 ppm		
Exposure Routes:	inh	າalation, ingestion, ຄ	skin and/or eye contact	
Target Organs:	Ey	es, skin, respiratory	/ system, central nervous system, liv	er, blood, reproductive system
Symptoms:	irri	tation eyes, skin, no	ose; headache, drowsiness, lassitud	e (weakness, exhaustion), narcosis; cough;
liver damage; anemia	a; reproduct	tive, teratogenic		
Australia NICNAS:	no	t listed	Canada CEPA 1999: DSL y	/es

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

Drinting	15010 n data: 01 10 2010	VISOCOLOR HE Calcium CA 20	Page: 8/11
Printing	g date: 01.10.2019	Date of issue: 15.03.2019	
	Japan CSCI /DDTD.	net listed Japan DDSCL - not listed	
	Japan CSCL/PRTR: Japan ISHL:	not listed, Japan PDSCL: not listed listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)	
	South Korea TCCA:	not listed	
	Korea Exist.Chem.Inventory:	: KE-13217	
	LD50 <sub>orl rat</sub> :	6200 mg/kg	
	LC_Lowihl gpg :	21.9 g/m <sup>3</sup>	
	LC_LOWorl hmn	1400 mg/kg [4b] 30 g/m <sup>3</sup>	
	LC50 <sub>ihl mouse</sub> : LC50 <sub>ihl rat</sub> :	[4h] 39 g/m³ [10h] 20 g/m³	
	LC50 <sub>ihl rat</sub> : LD50 <sub>drm rbt</sub> :	[10h] 20 g/m³ 20 000 mg/kg	
	LD50 <sub>oral mouse</sub> :	3450 mg/kg	
	TRGS 905 (DE):	K5, M5, R <sub>F</sub> C	
	25 mL Soda lye 10 %		
	Chemical: sodium	hydroxide solution	CAS No.: 1310-73-2
	TSCA Inventory:	listed California Proposition 65 List	st: not listed
	Exposure Routes:	inhalation, ingestion, skin and/or eye contact	
	Target Organs: Symptoms:	Eyes, skin, respiratory system irritation eyes, skin, mucous membrane; pneumor	the ever akin hume: tomporary loss of hair
	Symptoms: Australia NICNAS:	not listed Canada CEPA 1999	
	Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
	Japan ISHL:	listed $\geq 1,0\%/\geq 1,0\%$ , Article 57-2 (SDS required)	
	South Korea TCCA:	not listed	
	Korea Exist.Chem.Inventory:		
	LD50 <sub>orl rat</sub>	[40%] 1250 / [<25%] >2000 mg/kg	
	LD50 <sub>orl mus</sub> :	40 mg/kg	
	Chemical: ethylen	ndinitrilo tetraacetic acid, di Na-salt (EDTA-Na)	CAS No.: 6381-92-6
	TSCA Inventory: LD50 <sub>orl rat</sub> :	listed (CAS 139-33-3) 2800 mg/kg	
	TSCA Inventory: LD50 <sub>orl rat</sub> :	2800 mg/kg	
	TSCA Inventory: LD50 <sub>orl rat</sub> : FION 12: Ecological info Toxicity	2800 mg/kg	
SECT 2.1	TSCA Inventory: LD50 <sub>orl rat</sub> : FION 12: Ecological info Toxicity Following information is valid fo	2800 mg/kg	
	TSCA Inventory: LD50 <sub>orl rat</sub> : FION 12: Ecological info Toxicity Following information is valid fo 10 mL Indicator CA 20	2800 mg/kg Drmation for pure substances.	
	TSCA Inventory: LD50 <sub>orl rat</sub> : FION 12: Ecological info Toxicity Following information is valid for 10 mL Indicator CA 20 Chemical:	2800 mg/kg Ormation For pure substances. ethanolamine	CAS No.: 102-71-6
	TSCA Inventory: LD50 <sub>orl rat</sub> : FION 12: Ecological info Toxicity Following information is valid for 10 mL Indicator CA 20 Chemical: trice PNEC(fresh water) :	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L	
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC(fresh water) : PNEC = Predicted No Effected	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration	
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC(fresh water) : PNEC = Predicted No Effected LC50 <sub>fish/96h</sub> :	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L	
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC = Predicted No Effected LC50 <sub>fish/96h</sub> : EC50 <sub>daphnia/48h</sub> : Water hazard class (DE)	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 mg/L >100024h mg/L ): 1 WGK No.: 0201	
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC (fresh water) : PNEC (fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : Water hazard class (DE), Dispersion coefficient(oct)	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 <sub>24h</sub> mg/L ): 1 WGK No.: 0201 tanol-water): -2.3	
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC = Predicted No Effected LC50 <sub>fish/96h</sub> : EC50 <sub>daphnia/48h</sub> : Water hazard class (DE)	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 mg/L >100024h mg/L ): 1 WGK No.: 0201	
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: tride PNEC (fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : Water hazard class (DE) Dispersion coefficient(oct Storage class (VCI):	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 <sub>24h</sub> mg/L ): 1 WGK No.: 0201 tanol-water): -2.3	
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trice PNEC = Predicted No Effected LC50 <sub>dish/96h</sub> : EC50 <sub>daphnia/48h</sub> : Water hazard class (DE) Dispersion coefficient(oct Storage class (VCI): Chemical: cal	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000_24h mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 alconcarboxylic acid hanol	CAS No.: 102-71-6
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trice PNEC = Predicted No Effected LC50 <sub>dish/96h</sub> : EC50 <sub>daphnia/48h</sub> : Water hazard class (DE) Dispersion coefficient(oct Storage class (VCI): Chemical: cal	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000_24h mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 alconcarboxylic acid hanol	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC (fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : Water hazard class (DE) Dispersion coefficient(oct Storage class (VCI): Chemical: etf PNEC = Predicted No Effected	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L 0.32 mg/L >1000 mg/L >1000 g/L >100024h mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 alconcarboxylic acid hanol 0.96 mg/L	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC = Predicted No Effected LC50 <sub>fish</sub> /96h : EC50 <sub>daphnia</sub> /48h : Water hazard class (DE) Dispersion coefficient <sub>(oci</sub> Storage class (VCI): Chemical: etf PNEC = Predicted No Effected LC50 <sub>daphnia</sub> magna/48h :	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L 0.32 mg/L > 1000 mg/L > 1000 mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 alconcarboxylic acid hanol 0.96 mg/L > 100 mg/L	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC (fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : Water hazard class (DE) Dispersion coefficient(oct Storage class (VCI): Chemical: etf PNEC = Predicted No Effected	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L 0.32 mg/L > 1000 mg/L > 1000 mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 alconcarboxylic acid hanol 0.96 mg/L > 100 mg/L	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> Following information is valid for <b>10 mL Indicator CA 20</b> Chemical: tride PNEC (fresh water) : PNEC = Predicted No Effected LC50(ish/96h : EC50daphnia/48h : Water hazard class (DE) Dispersion coefficient(oct Storage class (VCI): Chemical: eff PNEC (fresh water) : PNEC = Cassed (VCI): Chemical: eff PNEC (fresh water) : PNEC = Predicted No Effected LC50(aphnia magna/48h : LC50pimephales prometas/9 LC50[euciscus idus/96h : LC50[ish/96h :	2800 mg/kg <b>Drmation</b> For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 $_{24h}$ mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 nlconcarboxylic acid hanol 0.96 mg/L >100 mg/L >100 mg/L >100 mg/L >100 mg/L 13400 - 15100 mg/L 13 g/L	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: tric PNEC = Predicted No Effected LC50 <sub>fish/96h</sub> : EC50 <sub>daphnia/48h</sub> : Water hazard class (DE) Dispersion coefficient(oct Storage class (VCI): Chemical: ett PNEC = Predicted No Effected LC50 <sub>daphnia</sub> magna/48h : LC50 <sub>pimephales</sub> promelas/9 LC50 <sub>pimephales</sub> promelas/9	2800 mg/kg <b>Drmation</b> For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 g/L >1000 g/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 alconcarboxylic acid hanol 0.96 mg/L >100 mg/L >100 mg/L >13400 - 15100 mg/L 13 g/L 9.3-14.2 g/L	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: tric PNEC = Predicted No Effected LC50 <sub>fish/96h</sub> : EC50 <sub>daphnia/48h</sub> : Water hazard class (DE) Dispersion coefficient(oct Storage class (VCI): Chemical: ett PNEC = Predicted No Effected LC50 <sub>daphnia</sub> magna/48h : LC50 <sub>pimephales</sub> promelas/9 LC50 <sub>pimephales</sub> promel	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L 0.32 mg/L 0.96 mg/L 0.96 mg/L 0.96 mg/L 0.96 mg/L 13 400 - 15100 mg/L 13 g/L 9.3-14.2 g/L 0.314.2 g/L 0.314.2 g/L 0.314.2 g/L 0.32 mg/L 0.32 mg/L 0.96 mg/L 0.90 mg/L 0.90 mg/L 0.93 mg/L 0.93 mg/L 0.93 mg/L 0.93 mg/L 0.93 mg/L 0.93 mg/L 0.93 mg/L 0.91 mg/L 0.93 mg/L 0.91 mg/L 0.93 mg/L 0.91 mg/L 0.92 mg/L 0.91 mg/L	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> Following information is valid for <b>10 mL Indicator CA 20</b> Chemical: trie PNEC (fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : Water hazard class (DE) Dispersion coefficient(oct) Storage class (VCI): Chemical: etf PNEC = Predicted No Effected LC50daphnia magna/48h : LC50pimephales promelas/9 LC50leuciscus idus/96h : LC50jeuciscus idus/96h : LC50gish/96h : EC50daphnia/48h : IC50scenedesmus quadricau EC10pseudomonas putita/16	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L 0.32 mg/L 0.96 mg/L 0.96 mg/L 0.96 mg/L 0.96 mg/L 0.96 mg/L 0.96 mg/L 0.96 mg/L 13 400 - 15100 mg/L 13 g/L 9.3-14.2 g/L 0.32 mg/L 0.36	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fo</b> <b>10 mL Indicator CA 20</b> Chemical: trie PNEC (fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : Water hazard class (DE); Dispersion coefficient(oct Storage class (VCI): Chemical: ett PNEC = Predicted No Effected LC50daphnia magna/48h : LC50gimephales promelas/9 LC50leuciscus idus/96h : LC50daphnia/48h : LC50gimephales promelas/9 LC50leuciscus idus/96h : LC50daphnia/48h : LC50gimephales promelas/9 LC50leuciscus idus/96h : LC50daphnia/48h : LC50gimephales promelas/9 LC50leuciscus idus/96h : LC50gimephales promelas/9 LC50genedesmus quadricau EC10pseudomonas putita/16 Water hazard class (DE)	2800 mg/kg <b>Drmation</b> For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 <sub>24h</sub> mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 h/concarboxylic acid hanol 0.96 mg/L 0.96 mg/L 0.96 mg/L 13 g/L 9.3-14.2 g/L 9.3-14.2 g/L 13 g/L 9.3-14.2 g/L 13 G/L 9.3-14.2 g/L 13 G/L 9.3-14.2 g/L 13 G/L 9.3-14.2 g/L 148h] 8140 mg/L 13 g/L 9.3-14.2 g/L 148h] 5000 mg/L 15 000 mg/L 15 000 mg/L 16 00 000 000 000 000 000 000 000 000 00	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> Following information is valid for <b>10 mL Indicator CA 20</b> Chemical: trie PNEC (fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : Water hazard class (DE) Dispersion coefficient(oct) Storage class (VCI): Chemical: etf PNEC = Predicted No Effected LC50daphnia magna/48h : LC50pimephales promelas/9 LC50leuciscus idus/96h : LC50jeuciscus idus/96h : LC50gish/96h : EC50daphnia/48h : IC50scenedesmus quadricau EC10pseudomonas putita/16	2800 mg/kg <b>Drmation</b> For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 <sub>24h</sub> mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 h/concarboxylic acid hanol 0.96 mg/L 0.96 mg/L 0.96 mg/L 13 g/L 9.3-14.2 g/L 9.3-14.2 g/L 13 g/L 9.3-14.2 g/L 13 G/L 9.3-14.2 g/L 13 G/L 9.3-14.2 g/L 13 G/L 9.3-14.2 g/L 148h] 8140 mg/L 13 g/L 9.3-14.2 g/L 148h] 5000 mg/L 15 000 mg/L 15 000 mg/L 16 00 000 000 000 000 000 000 000 000 00	CAS No.: 102-71-6 CAS No.: 3737-95-9
	TSCA Inventory: LD50 <sub>orl rat</sub> : <b>FION 12: Ecological info</b> <b>Toxicity</b> Following information is valid for <b>10 mL Indicator CA 20</b> Chemical: trice PNEC (fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : Water hazard class (DE); Dispersion coefficient(oct Storage class (VCI): Chemical: ett PNEC = Predicted No Effected LC50daphnia magna/48h : LC50pimephales promelas/9 LC50leuciscus idus/96h : LC50daphnia/48h : IC50scenedesmus quadricau EC10pseudomonas putita/16 Water hazard class (DE; Dispersion coefficient(oct)	2800 mg/kg Drmation For pure substances. ethanolamine 0.32 mg/L d Concentration >1000 mg/L >1000 <sub>24h</sub> mg/L ): 1 WGK No.: 0201 tanol-water): -2.3 12 n/concarboxylic acid hanol 0.96 mg/L 0.96 mg/L 0.96 mg/L 13 g/L 9.3-14.2 g/L 13 g/L 9.3-14.2 g/L 13 g/L 9.3-14.2 g/L 13 g/L 9.3-14.2 g/L 13 g/L 9.3-14.2 g/L 148h] 8140 mg/L 13 g/L 9.3-14.2 g/L 1000 mg/L 100 m	CAS No.: 102-71-6 CAS No.: 3737-95-9



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# **MACHEREY-NAGEI**



# Safety Data Sheet

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

REF: 9	15010	VISOCOLOR HE Calcium C	A 20 Page: 9/11
Printing	g date: 01.10.2019	Date of issue: 15.03.2019	
	25 mL Soda lye 10 %		
	Chemical: Avoid contact of	sodium hydroxide solution substance/mixture to environment.	CAS No.: 1310-73-2
	LC50 <sub>leuciscus idus</sub>		
	LC50fish/96h :	45.4 mg/L	
	EC50daphnia/48h :	>100 mg/L ss (DE): 1 WGK No.: 142	
	Water hazard cla Storage class (V		
	100 mL TL CA 20		
	Chemical: PNEC(fresh water) PNEC = Predicted No	ethylendinitrilo tetraacetic acid, di Na-salt (EDT 2.2 mg/L Effected Concentration	A-Na) CAS No.: 6381-92-6
	LC50 <sub>fish/96h</sub> :	[4d] 41-1592 mg/L	
	EC50 <sub>daphnia/48h</sub> :	140 mg/L	
	IC50 <sub>scenedesmus</sub> EC10 <sub>pseudomonas</sub>	uadricauda/72h [72h] 2.77-1000 mg/L putita/16h [EC10, 30h] 500 mg/L	
	Water hazard cla		
		cient <sub>(octanol-water)</sub> : -4.3	
2.2	Persistence and den	gradability	
2.3	Bioaccumulative po	tential	
	not necessary		
12.4	Mobility in soil		
	not necessary		
12.5	Results of PBT and no data available	vPvB assessment	
2.6	Other adverse effect	te	
2.0	no additional data availabl		
SECT	ION 13: Disposal o	onsiderations	
Р	lease observe local regulatior	s for collection and disposal of hazardous waste an	d contact waste disposal company, where you will obtain
		disposal (waste code number 16 05 06).	
3.1	Waste treatment me		
	Normally it is possible to e water.	npty small amounts (diluted!) into drains. Empty cor	ntainers of corrosive reagents prior to disposal, rinse with
SECT	ION 14: Transport	information	
14		4.2. UN proper shipping name: Chemical Kit 4.4. Packing group: II	
	Classification code: M11	Tunnel restriction code: E	

Rodu transport			
Classification code:	M11	Tunnel restriction coo	de: E
Limited Quantity:	acc. ADR 3.3	.1/251: see LQ in Alter	native declaration for transportation
Air transport			
PAX:	960	max. weight PAX:	10 KG
CAO:	960	max. weight CAO:	10 KG
Maritime transport		-	
EmS:	F-A, S-P	Storage category:	A
	,	0 0 )	
Or use Alternative d	coloration for	transportation	

Or use Alternative declaration for transportation: UN No.: (see below) class 8 II, Excepted Quantities ( $\leq$ 30 mL/ $\Sigma$  $\leq$ 500 mL) = ADR/ IATA E2

14.3 Class:	1824 8	UN proper shipping name Packing group: II	: Sodium hydroxide solution
Road transport Classification code: Limited Quantity:	C5 1 L	Tunnel restriction code:	E



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

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Printing date: 01.10.2019 Date of issue: 15.03.2019	

Excepted Quantity: Air transport	E 2		
PAX:	851	max. weight PAX:	1 L
CAO:	855	max. weight CAO:	30 L
Maritime transport			
EmS:	F-A, S-B	Storage category:	А

### 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 relevan	it H phrases
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

### 16.1.2 List of relevant P phrases

LISC OF TELEVALLE PIL	10565
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260sh	Do not breathe dust/vapours.
P280sh	Wear protective gloves/eye protection.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P390	Absorb spillage to prevent material damage.

### 16.2 Training advice

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

+49 24 21 969-0

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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, 4<sup>th</sup> 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

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