# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 931015	VISOCOLOR ECO Chlorine 2, free and total	Page: 1/9
Printing date: 12.05.2021	Date of issue: 13.01.2021	

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

1.1 Product identifier
------------------------

REF Product name 931015 VISOCOLOR ECO Chlorine 2, free and total

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 30 mL Cl <sub>2</sub> -	3
1 x 25 mL Cl <sub>2</sub> -	2
1 x 18 mL Cl <sub>2</sub> -	1

#### 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 Valencienner Str. 11, 52355 Düren, 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

	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H315 H319	Skin Irrit. 2 Eye Irrit. 2

#### 2.1 Classification of the substance or mixture

30 mL Cl<sub>2</sub> -3

Signal word

Do not need labelling as hazardous

No hazard class

25 mL Cl<sub>2</sub> -2

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	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H315 H319	Skin Irrit. 2 Eye Irrit. 2

### 18 mL Cl<sub>2</sub> -1

Do not need labelling as hazardous Signal word

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

#### 30 mL Cl<sub>2</sub> -3

Do not need labelling as hazardous Signal word: -

### 25 mL Cl<sub>2</sub> -2



### 18 mL Cl<sub>2</sub> -1

Do not need labelling as hazardous Signal word: -

#### 2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. ---

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

30 mL Cl<sub>2</sub> -3

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REF: 931015			Chlorine 2, free and total	l	Page: 3/9
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	Chemical: potass	sium iodide		CAS No.: 7681-11-0	
	Classification:	H319, Eye Irrit. 2			
	Formula:	KI			
	TSCA Inventory:	listed			
	REACH Reg. No.:	YES, confidential			
	EC No.:	231-659-4			
	RTECS:	TT29750000	MFCD:	00011405	
	KE No.:	not listed	WI CD.	00011403	
	Concentration:	1 - <10 %			
	acc. CLP (GHS):				
		The criteria for classification are not fulfilled	l.		
	Chemical: water			CAS No.: 7732-18-5	
	Classification:	No criteria for classification or naming of cl	emical not required.		
	Formula:	H <sub>2</sub> O			
	TSCA Inventory:	listed			
	REACH Reg. No.:	exempt, Annex IV			
	EC No.:	231-791-2			
	RTECS:	ZC0110000			
	KE No.:	KE-35400			
	Concentration:	90 - <100 %			
	acc. CLP (GHS):	The criteria for classification are not fulfilled	I.		
	25 ml Cla 2				
2	25 mL Cl <sub>2</sub> -2 Chemical: N.N-D	iethyl-1,4-phenylene diammonium s	ulfato	CAS No.: 6283-63-2	
	Classification:	H302, Acute Tox. 4 oral, H312, Ac		UAU NU 0203-03-2	
	Formula:	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> •H <sub>2</sub> O	ute T0X. 4 denn.		
	Pseudonym:	N,N-diethylbenzene-1,4-diammon	um sulfato		
	TSCA Inventory:	listed (CAS 6065-27-6)	unisulate		
	EC No.:	228-500-6	Indice No.:	612-080-00-X	
	RTECS:	SS9625000	MFCD:	00012993	
	Concentration:	0.1 - <1 %	MICD.	00012995	
	acc. CLP (GHS):	The criteria for classification are not fulfilled	l.		
	Observiced and first			040 No. 7004 00 0	
	Chemical: sulfuri			CAS No.: 7664-93-9	
	Classification:	H314, Skin Corr. 1B			
	Formula:	$H_2 SO_4 (\bullet H_2 O)$			
	TSCA Inventory:				
	REACH Reg. No.:	01-2119458838-20-xxxx	la dia a Ni	040 000 00 0	
	EC No.:	231-639-5	Indice No.:	016-020-00-8	
	RTECS:	WS5600000			
	KE No.:	KE-32570, >10% Toxic 97-1-405,	Acc. Precaution Chem.		
	Concentration:	5 - <15 %	0		
	acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye Irrit.	۷		
	18 mL Cl <sub>2</sub> -1				
		hate buffer solution		CAS No.: -	
	Classification:	No criteria for classification or naming of cl	emical not required		
	Formula:	K/Na <sub>1-3</sub> H <sub>2-0</sub> PO <sub>4</sub> • x H <sub>2</sub> O	onnoai not roquiteu.		
	TSCA Inventory:	all listed			
	KE No.:	listed			
	Concentration:	50 - <75 %			
	acc. CLP (GHS):	The criteria for classification are not fulfilled	l.		
<b>.</b> .					
	marks	added with water ICAE No. 7700 40	51 to 100%		
	when not listed, mixtures are	added with water [CAS No. 7732-18	-ວງ ເດ 100%.		
ļ	List of H and P phrases: see s	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.



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.1.1	After SKIN Contact Remove contaminated clothi soap.	ng. Rinse the affected skin or mucous membrane thoroughly under running wat	er. (If possible) use
.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).		
.1.3	After INHALATION of vapours After inhalation of foam or vapour fresh air should be inhaled. Keep airways free		
.1.4	After ORAL Intake After oral intake lots of water should be drunk after it has been ingested		
.2	Most important symptoms and effects, both acute and delayed		
l.3	Indication of any immediate medical attention and special treatment needed No additionally recommendations		
SECT	ION 5: Firefighting me	asures	
5.1		he fire classification, and, if applicable, a fire blanket must be available in a pro OAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.	minent location in the
5.2		rom the substance or mixture tic 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): 8B Water hazard class (DE): 3

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.



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# **MACHEREY-NAGEI**



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SECI	<b>FION 8: Exposure co</b>	ntrols/personal protectio	on	
8.1	Control parameters			
	<b>30 mL Cl<sub>2</sub> -3</b> Chemical: potassium	iodide	CAS No.: 7681-11-0	
	Chemical: water		CAS No.: 7732-18-5	
	NIOSH: [TWA] Time-weighted		CAS No.: 6283-63-2 ] Short-term exposure limit related to a 15-minute period	
		[inh] 50 µg/m³ Effect Level (for workers)	CAS No.: 7664-93-9	
	SUVA(CH) MAK value: NIOSH:	0.1 e mg/m <sup>3</sup> 0.1 E mg/m <sup>3</sup> E/e respirable tor: 1 (I), Y espiratory sensitizable (Sa), skin sensitizable (Sf 0,1 e mg/m <sup>3</sup> NTP Report on Carcinogens (RoC	n), teratogenic (Z) not securely excluded / (Y) certainly excl C) List Yes (Known to be a human carcinogen); ] Short-term exposure limit related to a 15-minute period	
	<b>18 mL Cl<sub>2</sub> -1</b> Chemical: phosphate	buffer solution	CAS No.: -	
8.2		<b>xposure controls</b> bod ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest vel of cleanliness must be maintained at the workplace.		
8.2.1	<b>Respiratory protection</b>			
8.2.2	Hand protection Yes, gloves according E			
8.2.3	<b>Eye protection</b> Yes, safety glasses acco	ording 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 prohibite e substance has been spilled, and soak it in wa eating, and then apply protective skin cream.	
SECI	<b>FION 9: Physical and</b>	chemical properties		
9.1	Information on basic	physical and chemical proper	rties	
	<b>30 mL Cl<sub>2</sub> -3</b> Appearance: liquid Flash point: Specific gravity:	Colour: colourless N/A 1.0 g/cm³	Odor: odorless	
	<b>25 mL Cl</b> <sub>2</sub> <b>-2</b> Appearance: liquid	Colour: rose	Odor: odorless	



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	pH: Specific gravity:	0-1 1,1 g/cm³		
	<b>18 mL Cl<sub>2</sub> -1</b> Appearance: liquid	Colour: colourless	Odor: odorless	
	pH: Specific gravity: Solubility in water:	9 1,2 g/cm³ 0-100 %		
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 		report is required.	
SECI	FION 10: Stability and re	activity		
10.1	<b>Reactivity</b> no further data available.			
10.2	Chemical stability No known instability.			
10.3	<b>Possibility of hazardous r</b> No further data available.	reactions		
10.4	Conditions to avoid			
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.			
SECI	ΓΙΟΝ 11: Toxicological i	nformation		
11.1	Information on toxicologic Following information is valid for		ata on the toxicity of this product are not a	vailable.
	TSCA Inventory: Korea Exist.Chem.Inventory:	<i>ım iodide</i> listed not listed 2779 mg/kg	CAS No.: 7681-11	-0
	Chemical: water TSCA Inventory: Korea Exist.Chem.Inventory:	listed KE-35400	CAS No.: 7732-18	-5
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL:	not listed, Japan PDSCL: not listed not listed		-2
	LD50 <sub>orl rat</sub> : Chemical: <i>sulfuric</i> TSCA Inventory:		CAS No.: 7664-93 oposition 65 List: not listed	-9

inhalation, ingestion, skin and/or eye contact Exposure Routes:

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Printing	date: 12.05.2021	Date of issue: 13.01.2021	
	Symptoms: irritatio dental erosion; eye, skin burns; derm Australia NICNAS: not liste Japan CSCL/PRTR: not liste Japan ISHL: listed ≥ South Korea TCCA: Accide Korea Exist.Chem.Inventory: KE-325 LD50 <sub>orl rat</sub> : 2140 m	atitis ed Canada CEPA 1999: ∣ ed, Japan PDSCL: Deleterious Substance 1,0%/≥1,0%, Article 57-2 (SDS required) nt Precaution Chemical Yes 570, >10% Toxic 97-1-405, Acc. Precaution C	
	TRGS 905 (DE): Kat 4		
	<b>18 mL Cl</b> <sub>2</sub> <b>-1</b> Chemical: phosphate buff TSCA Inventory: all liste Korea Exist.Chem.Inventory: listed		CAS No.: -
SECT	ION 12: Ecological informat	ion	
12.1	Toxicity Following information is valid for pure 30 mL Cl <sub>2</sub> -3		040 Nr. 7004 44 0
	Chemical: potassium LC50 <sub>fish/96h</sub> : Water hazard class (DE): Dispersion coefficient <sub>(octanol-wate</sub> Storage class (VCI):	2190 mg/L 1	CAS No.: 7681-11-0
	Chemical: water		CAS No.: 7732-18-5
	25 mL Cl <sub>2</sub> -2 Chemical: <i>N,N-Dieth</i> Water hazard class (DE): Storage class (VCI):	/l-1,4-phenylene diammonium sulfate 3 12-13	CAS No.: 6283-63-2
	Chemical: sulfuric ac PNEC (fresh water) : PNEC = Predicted No Effected Concent LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE):		CAS No.: 7664-93-9
	Storage class (VCI):	00	
	Storage class (VCI): 18 mL Cl <sub>2</sub> -1	buffer solution 1 12	CAS No.: -
12.2	Storage class (VCI): <b>18 mL Cl<sub>2</sub> -1</b> Chemical: phosphate Water hazard class (DE): Storage class (VCI): <b>Persistence and degradability</b>	buffer solution	CAS No.: -
12.2 12.3	Storage class (VCI): <b>18 mL Cl<sub>2</sub> -1</b> Chemical: phosphate Water hazard class (DE): Storage class (VCI):	buffer solution	CAS No.: -



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#### 12.5 Results of PBT and vPvB assessment

no data available 12.6

### Other adverse effects

no additional data available

### 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 - 14.4: No dangerous goods according the transport regulations

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

List of H and D phrases

10.1			
16.1.1	<b>List of relevar</b> H315 H319	<b>It H phrases</b> Causes skin irritation. Causes serious eye irritation.	
16.1.2	2 List of relevant P phrases P280sh Wear protective gloves/eye protection.		
16.2	Training advice Regular safety training.		
16.3	<b>Recommended restriction on use</b> Only for professional user. An individual package of this product or test kit has a moderate hazardous potential.		
16.4	<ul> <li>An individual package of this product of test kit has a moderate nazardous potential.</li> <li>Further information</li> <li>MACHEREY-NAGEL GmbH &amp; Co. KG provides the information contained herein in good faith being up-to-date of own realizations a revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly train person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.</li> <li>MACHEREY-NAGEL GmbH &amp; 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 product to which the information refers. Accordingly MACHEREY-NAGEL GmbH &amp; Co. KG will not be responsible for damages resultion use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.</li> </ul>		

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#### Sources of key data 16.5

Regulation 790/2009/EU adaptation of CLP regulation 1272/2008/EU to technical and scientific progress 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 Regulation 1480/2018/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 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009 Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances) KÜHN, BIRETT

#### **Revisions/Updates**

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU

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