# **MACHEREY-NAGEL**



# according to Regulations REACh 1907/2006/EC

REF: 935019	VISOCOLOR alpha Chlorine	Page: 1/11
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# SECTION 1: Identification of the substance/mixture and of the company

1.1	Product identifier REF Product name	935019 VISOCOLOR alpha Chlorine
	the substance or its use is exclud	
	1 x 25 mL Cl <sub>2</sub> -2 1 x 18 mL Cl <sub>2</sub> -1	UFI: 3XXU-0355-420V-F0Q6
1.2	Relevant identified uses Product for analytical use.	ne substance or mixture and uses advised against on according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 rated into sections 1-16.
1.3	Details of the supplier of the Manufactured by: MACHEREY-NAGEL GmbH & Co Valencienner Str. 11, 52355 Dürer Phone: +49 2421 969 0	. KG n, Germany
1.4	Emergency telephone number Outside Germany (DE): Call your of DE: Gemeinsames Giftinformation 99089 Erfurt tel. +49 361 7	regional Poisons Information Service or call local Life Saving, Service. Service of Call Servi
	You find our current versions of SDS in Inte	30 730, <https: www.ggiz-erfurt.de=""> school of a sicherheit@cartroth.de</https:>

## **SECTION 2: Hazard identification**

### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008

	GHS05
Signal word	DANGER
Hazard identification	Hazard classes/categories
H314	Skin Corr. 1 B

# 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

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





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Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H314	Skin Corr. 1 B	
18 mL Cl <sub>2</sub> -1		
Signal word	Do not need labelling as hazardous -	
No hazard class		
List of H phrases: see section 16.2		

#### 2.2 Label elements according regulation (EC) 1272/2008

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)

25 mL Cl 2 -2



Signal word: DANGER H314

Causes severe skin burns and eye damage. P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P405, P501

Do not breathe dust/vapours.Wash hands thoroughly after handling.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.Store locked up.Dispose of contents/container to regulated waste treatment.

### 18 mL Cl 2 -1

Do not need labelling as hazardous Signal word: -

### Label elements of the complete product



Signal word: DANGER H314 Causes severe skin burns and eye damage. P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P405, P501 Do not breathe dust/vapours.Wash hands thoroughly after handling.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.Store locked up.Dispose of contents/container to regulated waste treatment.

#### 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.

### 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.



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# according to Regulations REACh 1907/2006/EC

Possible endocrine disrupting effects

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Information pertaining to	particular risks to the environment	
Information pertaining to Avoid contact of substance		

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

#### 3.1 Substances or 3.2 Mixtures

no data available

25 mL C	<b>; </b> <sub>2</sub> - <b>2</b>			
	Substance name:	sulfuric acid		
	CAS No.:	7664-93-9		
	Substance rating:	H314, Skin Corr. 1 B		
	Formula:	H <sub>2</sub> SO <sub>4</sub> (•H <sub>2</sub> O)		
	REACH Reg. No.:	01-2119458838-20-xxxx		
	EC No.:	231-639-5	Indice No.:	016-020-00-8
	Specific concentration 1A; H314 c ≥ 15%	n limit: Eye Irrit. 2; H319: 5	5 % ≤ C < 15 % - Skin In	rit. 2; H315: 5 % ≤ C < 15 % - Skin Corr
	Concentration:	15 - <30 %		
	acc. CLP (GHS):	H314, Skin Corr. 1 B		
	Substance name: CAS No.:	N,N-Diethyl-1,4-phenylene diamm 6283-63-2	onium sulfate	
	Substance rating:	H302, Acute Tox. 4 oral, H312, Ac	ute Tox. 4 derm.	
	Formula:	C 10 H 16 N 2 • H 2 O		
	Pseudonym (de):	DPD, 4-Amino-N,N-diethylanilin		
	EC No.:	228-500-6	Indice No.:	612-080-00-X
	Concentration:	0,1 - <1 %		
	acc. CLP (GHS):	The criteria for classification are not fulfilled	d.	
18 mL C				
	Substance name:	phosphate buffer solution		

Substance name:	phosphate buffer solution
CAS No.:	-
Substance rating:	No criteria for classification or naming of chemical not required.
Formula:	K/Na <sub>1-3</sub> H <sub>2-0</sub> PO <sub>4</sub> • x H <sub>2</sub> O
Concentration:	75 - <90 %
acc. CLP (GHS):	The criteria for classification are not fulfilled.

#### 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 16.2.

### **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.



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### 4.1.3 After INHALATION of vapours

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. ---

### 4.1.4 After ORAL Intake

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

Rapid penetration and destruction of the skin. Especially in the heated form. Causes severe skin burns and eye damage.

### 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 INTAKE 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

### 5.1.1 Suitable 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.

5.1.2 Unsuitable extinguishing media no data available

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

Formation of hazardous and caustic vapour-air mixtures possible.

### 5.3 Advice for firefighters

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

Avoid contact of substance/mixture to environment. **PBT:** not applicable **vPvB:** not applicable

### 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 5.4,7,8 and 13



Software: M2 V 6.1.4.2

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# DEACH 4007/2000/CC

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	g date: 20.07.2023		Version: 2.2.2.30
SEC	FION 7: Handling and s	storage	
7.1	<b>Precautions for safe han</b> Handling in accordance with the	test instruction, that comes with the product.	
7.2		age, including any incompatibilities e original packaging . Storage class (German chemical i 8B 3	ndustry): see chapter 12.1
7.2.1	Requirements for stock re Keep original product packages	<b>boms and containers</b> tightly closed during handling and storage. Use inbreaka	able container for transport of glass bottles.
7.3	Specific end use(s) Product for analytical use.		
SEC	ΓΙΟΝ 8: Exposure cont	rols /personal protection	
8.1	Control parameters		
	<b>25 mL Cl</b> <sub>2</sub> - <b>2</b> Chemical: <i>sulfuric acid</i> DNEL: DNEL = Derived No-Effe	[inh] 50 μg/m³ ct Level (for workers)	CAS No.: 7664-93-9
	PNEC (fresh water) : PNEC = Predicted No Ef	2.5 μg/L fected Concentration	
	EU value: TRGS 900 (DE):	0.1 e mg/m³ 0.1 E mg/m³ E/e respirable	
	Short-term exposure factor: skin resorptive (H) resp		urely excluded / (Y) certainly excluded
	SUVA(CH) MAK value: NIOSH:	0,1 e mg/m³ NTP Report on Carcinogens (RoC) List Yes (Known tr erage to a reference period of 8 hours, [STEL] Short-term exposure lim	o be a human carcinogen); [TWA] 1 mg/m³
	OSHA:	[TWA] 1 mg/m³	
	NIOSH:	1,4-phenylene diammonium sulfate not listed erage to a reference period of 8 hours, [STEL] Short-term exposure lin	CAS No.: 6283-63-2
	OSHA:	not listed	
	<b>18 mL Cl</b> <sub>2</sub> <b>-1</b> Chemical: phosphate b	uffer solution	CAS No.: -
8.2	Exposure controls Good ventilation and extraction level of cleanliness must be mai	system in the room, floor resistant to chemicals with floo ntained at the workplace.	r drainage and washing facilities. The highest
8.2.1	Respiratory protection No additional recommendat	ions.	
8.2.2	Skin protection / Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ans or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.		
8.2.3	Eye / Face Protection Yes, safety glasses accordi	ng EN 166 with integrated side shields or wrap-around p	protection or face protection.
8.2.4	Skin protection Recommended to avoid clo	thing damage, and to avoid contamination with these ha	zards.
8.2.5	with the skin, eyes and clot	aking snuff and storage of food in work areas and at outo ning. Rinse any clothing on which the substance has bee ater when stopping work and before eating, and then ap	en spilled, and soak it in water. Wash hands
8.2.6	Thermal hazards		



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# **Safety Data Sheet**

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### 8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

## **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties 9.1

25 mL Cl <sub>2</sub> -2	
a) State of aggregation:	liquid
b) Colour:	slightly yellow
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	0-1
I) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (o/w):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1,15 g/cm³
q) Relative vapour density <sub>(air=1)</sub> :	no data available
r) Particle size:	no data available
18 mL Cl <sub>2</sub> -1	
a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available no data available
g) Explosive limits (lower / upper): h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	9
I) Kinematic viscosity:	no data available
m) Solubility in water:	
	0-100 %
, ,	0-100 % no data available
n) Dispersion coefficient (o/w) :	no data available
n) Dispersion coefficient <sub>(o/w)</sub> : o) Vapour pressure (20°C):	no data available no data available
n) Dispersion coefficient (o/w) :	no data available

Other information

# 9.2

r) Particle size:

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. Properties relevant to substance groups Substances are highly corrosive.

no data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no further data available.

10.2 **Chemical stability** no known instability.



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0.3	<b>Possibility of hazar</b> Can react violently with or		ther data available	
0.4	Conditions to avoid			
0.5	Incompatible mater no additional data availab			
0.6	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.			not observed during the expiration
БСТ	ION 11: Toxicolog	gical informati	on	
1.1			ances. Quantitative data on the toxicity of this pro	duct are not available.
	25 mL Cl <sub>2</sub> -2 Chemical: TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: dental erosion; eye, s Australia NICNAS: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50 orl rat : LC50 ihl mus : TRGS 905 (DE): Chemical: TSCA Inventory: Australia NICNAS: Japan ISHL: South Korea TCCA: LD50 orl rat : <b>18 mL Cl</b> <u>2</u> -1 Chemical: TSCA Inventory:	Eyes, skin, re irritation eyes skin burns; dermatitis not listed not listed >1,0%/2 Accident Pred ventory: KE-32570, >1 2140 mg/kg 0,85 mg/L/4H Kat 4 <i>N,N-Diethyl-1,4-pher</i> listed (CAS 6 not listed	California Proposition 65 List: not listed gestion, skin and/or eye contact spiratory system, teeth , skin, nose, throat; pulmonary edema, bronchitis; Canada CEPA 1999: DSL Yes ban PDSCL: Deleterious Substance 21,0%, Article 57-2 (SDS required) caution Chemical Yes 10% Toxic 97-1-405, Acc. Precaution Chem.	S No.: 7664-93-9 emphysema; conjunctivitis; stomatis; S No.: 6283-63-2
	Korea Exist.Chem.In	ventory: listed		
1.2	Other hazards	diamonting of t		
	Possible endocrine no data available Other information no additional data av			

### 12.1 Toxicity

Following information is valid for pure substances.

25 mL Cl 2 -2 sulfuric acid Chemical: Avoid contact of substance/mixture to environment. PNEC (fresh water) : 2.5 µg/L PNEC = Predicted No Effected Concentration

CAS No.: 7664-93-9



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	LC50 fish/96h : EC50 daphnia/48h : EC10 pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI):	[NOEC, 65d] 25 μg/L 100 mg/L [72h] 100 mg/L 1 WGK No.: 0182 8 Β	
	Chemical: <i>N,N-Diethy</i> Water hazard class (DE): Storage class (VCI):	<i>I-1,4-phenylene diammonium sulfate</i> 3 12-13	CAS No.: 6283-63-2
	<b>18 mL Cl</b> <sub>2</sub> <b>-1</b> Chemical: phosphate Water hazard class (DE): Storage class (VCI):	buffer solution 1 12	CAS No.: -
12.2	Persistence and degradability not necessary	ty	
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	<b>Results of PBT and vPvB as</b> This substance/mixture contains no co and very bioaccumulative (vPvB) at le	omponents considered to be either persistent, t	bioaccumulative and toxic (PBT) or very persistent
12.6	Endocrine disrupting proper no data available	ties	
12.7	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. Empty containers of corrosive reagents prior to disposal, rinse with water.

## **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** Carriage in bulk by sea in accordance with IMO instruments Not applicable.

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020 Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

- TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017
- TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017 TRGS 401, Skin contact hazard - identification, assessment, action, Jun 2008, status: Feb 2011



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BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012

TRGS 500, Protective measures, Mai 2008

TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.

#### 15.2 Chemical safety assessment

not necessary for these small amounts

### SECTION 16: Other information

#### 16.1 Changes compared to the last version

Between versions 2.2.2.30 and 2.2.2.2 following changes were applied: - 28 substance data corrected

#### 16.2 List of H and P phrases

16.2.1 List of relevant H phrases

H314 Causes severe skin burns and eye damage.

### 1622

List of relevant P ph	rases
P260sh	Do not breathe dust/vapours.
P264	Wash hands thoroughly after handling.
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.
P405	Store locked up.
P501	Dispose of contents/container to regulated waste treatment.

#### 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 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP) Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP) Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)

Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP) TGS 900, German rules of technology on limit values in the air at work, as of 03/2019 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP) Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

### revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary 2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

> 2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU



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### 16.5 Further information

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### 16.6 Legend / Abbreviations

Logona	
acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only
Carc:	carcinogen
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging regulation
CMR:	carcinogen, mutagen, reproduction toxic
Corr:	corrosive
COD:	chemical oxigen demand
CSCL:	Chemical Substance Control Law (Jp)
Dam:	damage
DNEL:	Derived No-Effect Level (for workers)
derm:	dermal
dog: EC10:	dog
EC10. EC:	Concentration causing a toxic effect in 10% of the test organisms
EC. EC-Nr:	European Community Substance number of the EC substance inventory
EC-INI. EmS:	
EU:	Guide to accident management measures on ships European Union
fish:	fish (not spezified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg: ICAO:	guinea pig International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitonaeal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus	
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT:	persistent, bioaccumulating, toxic substance
pH:	pH value
, pimephales p	
PNEC:	Predicted No Effected Concentration
PROC 15:	Process category 'for laboratory use'
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)
PVC:	polyvinyl chloride
quail:	bird, quail
rat:	rat
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACh:	Registration, Evaluation, Authorisation and Restriction of Chemicals
	-



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### MA CHEREY-NAGE



# according to Regulations REACh 1907/2006/EC

REF: 935019	VISOCOLOR alpha Chlorine	Page: 11/11
Printing date: 20.07.2023	Date of issue: 24.05.2023	Version: 2.2.2.30

REF: Reg.No.: Repr: Resp: RIP: SCU: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: Tox: TSCA: TWA:	item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US) time weighted average
TSCA: TWA:	The Toxic Substances Control Act (US) time weighted average
TRGS: vPvB:	technical regulations (DE) very persistent, very bioaccumulating substance

### 16.7 **Training advice**

Regular safety training. 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.



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