MACHEREY-NAGEL



Safety Data Sheet

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

REF: 931090	VISOCOLOR ECO Swimming pool (Chlorine + pH)	Page: 1/10
Printing date: 22.11.2022	Date of issue: 27.09.2022	Version: 2.2.2.10

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

1.1	Product identifier	
	REF 931090	
	no data available VISOCOLOR ECO Swimming pool (Chlo	orine + pH)
	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 of	does not require registration or
	the substance or its use is excluded from registration.	
	E	X3WH-820N-DAF0
	1 x 20 mL pH-1	
	1 x 18 mL Cl ₂ -1	
1.2	Relevant identified uses of the substance or mixture and use	s advised against
	Relevant identified uses	3
	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	
4.2	Details of the cumplice of the opfate data shout	
1.3		
	Manufactured by:	
	MACHEREY-NAGEL GmbH & Co. KG	
	Valencienner Str. 11, 52355 Düren, Germany	- Oran in at a sur (read - Oran in at a sur)
	Phone: +49 2421 969 0 E-mail: sds	s@mn-net.com (msds@mn-net.com)
		cont Supp Co KG
1.4	Emergency telephone number	Lieferan cmbH + 2.5
	Outside Germany (DE): Call your regional Poisons Information Service or call	local Life Saving Service. Jenstr.
	DE: Gemeinsames Giftinformationszentrum (GGIZ)	Call boempenes Germany
	99089 Erfurt tel. +49 361 730 730, <https: www.ggiz-erfurt.de=""></https:>	Schoo warlsruhe, and D
		I local Life Saving Service. Schoempertenstr. 3-3 Schoempertenstr. 3-3 Schoempertenst
	Phone: +49 2421 969 0 E-mail: sds Emergency telephone number Outside Germany (DE): Call your regional Poisons Information Service or call DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730, <https: www.ggiz-erfurt.de=""> You find our current versions of SDS in Internet: <http: spice.c<="" spice.com="" th="" www.spice.com=""><th>vw.mn-net.com/SDS> +49 12 macarlrotting</th></http:></https:>	vw.mn-net.com/SDS> +49 12 macarlrotting
		school Karlsruhe, 0 ww.mn-net.com/SDS> +49 721 5606 0 sicherheit@carlroth.de
		510.

SECTION 2: Hazard identification

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

	GHS07 GHS08
Signal word	DANGER
Hazard identification	Hazard classes/categories
H315 H319 H360FD	Skin Irrit. 2 Eye Irrit. 2 Repr. 1B

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

25 mL Cl 2 -2





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

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 Signal word
 DANGER

 Hazard identification
 Hazard classes/categories

 H315
 Skin Irrit. 2

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). 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).

25 mL Cl 2 -2

H319

H360FD



Eye Irrit. 2

Repr. 1B

Signal word: DANGER H360FD May damage fertility. May damage the unborn child. P201, P280sh, P308+313, P405 Obtain special instructions before use.Wear protective gloves/eye protection.IF exposed or concerned: Get medical advice/attention.Store locked up.

Label elements of the complete product



Signal word: DANGER H360FD May damage fertility. May damage the unborn child. P201, P280sh, P308+313, P405 Obtain special instructions before use.Wear protective gloves/eye protection.IF exposed or concerned: Get medical advice/attention.Store locked up.

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 May damage fertility. May damage the unborn child.

Information pertaining to particular risks to the environmentPBT:not applicablevPvB:not applicable

Possible endocrine disrupting effects no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

25 mL Cl $_{\rm 2}$ -2



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Software: M2 V 6.0.20.60



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

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Printing	date: 22.11.2022	Date of issue: 27.09.2022		Version: 2.2.2.10
	Substance name CAS No.:	<i>boric acid</i> 10043-35-3		
	Substance rating Formula: Pseudonym (de) REACH Reg. No SVHC listed: EC No.: Concentration: acc. CLP (GHS) Substance name CAS No.:	H ₃ BO ₃ Orthoborsäure, E284 01-2119486683-25-0024 listed (18/06/2010) Cand. Lst. REACH Art59(10) 233-139-2 Indice No.: 0,5 - <5,5 % H360FD, Repr. 1B	005-007-00-2	
	Substance rating Formula: Pseudonym (de) EC No.: Concentration: acc. CLP (GHS) Substance name CAS No.:	C 10 H 16 N 2 •H 2 O DPD, 4-Amino-N,N-diethylanilin 228-500-6 Indice No.: 0,1 - <1 % The criteria for classification are not fulfilled.	612-080-00-X	
	Substance rating Formula: REACH Reg. No EC No.: Specific concent Concentration: acc. CLP (GHS)	H ₂ SO ₄ (•H ₂ O) : 01-2119458838-20-xxxx 231-639-5 Indice No.: ation limit: Skin Corr 1A; H314 c ≥ 15% 5 - <15 %	am. 1 016-020-00-8	
3.3	Remarks			
	When not listed, mixtures	are added with water [CAS No. 7732-18-5] to 100%.List of H	H and P phrases: see see	ction 16.2.
SECT	ION 4: First aid meas	ures		
4.1	Description of first aid Place insured person out of da necessary contact medical adv	nger zone to fresh air immediately. Ensure quiet, warmth, a	nd provide resuscitation	if necessary. If
4.1.1	After SKIN Contact Remove contaminated clo soap.	thing. Rinse the affected skin or mucous membrane thoroug	ghly under running water	. (If possible) use
4.1.2	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).

4.1.3 After INHALATION of vapours After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. --4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

4.2 Most important symptoms and effects, both acute and delayed

CMR Effekte:

4.3 Indication of any immediate medical attention and special treatment needed

-

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.



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

Printin	931090 g date: 22.11.2022	VISOCOLOR ECO Swimming pool (Chlorine + pH) Date of issue: 27.09.2022	Page: 4/10 Version: 2.2.2.1
5.1.2	Unsuitable exting		
5.2	Special hazards	arising from the substance or mixture us and caustic vapour-air mixtures possible.	
5.3	Advice for firefig		
5.4	Additional inform	nation	
SECI	ΓΙΟΝ 6: Accident	al release measures	
6.1	Do not breathe vapour	tions, protective equipment and emergency procedures rs. Wear suitable protective gloves (see 8.2.2). Regular staff training is necessary, indica sis of operating instructions. Restrictions on activity must be observed.	ating hazards and
6.2	Environmental p PBT: vPvB:	recautions not applicable not applicable	
6.3	Bind any escaping liqu	terial for containment and cleaning up uid with inert absorbent. And dispose in accordance to local regulations for the disposal of ed equipment and floors with plenty of water.	of hazardous chemicals.
		of leaked liquid and flush with water into drains.	
SECI	Collect small amounts Reference to oth	of leaked liquid and flush with water into drains. er sections g and storage	
6.4 SEC1 7.1	Collect small amounts Reference to oth FION 7: Handling Precautions for s	of leaked liquid and flush with water into drains. er sections g and storage safe handling	
SECI	Collect small amounts Reference to oth FION 7: Handling Precautions for s Handling in accordanc Conditions for sa Safe storage is guaran Storage class (German	of leaked liquid and flush with water into drains. er sections g and storage safe handling we with the test instruction, that comes with the product. afe storage, including any incompatibilities inteed in the original packaging . Products which are also classified as toxic must be kept in chemical industry): see chapter 12.1	t under lock and key.
SEC 1 7.1	Collect small amounts Reference to oth FION 7: Handling Precautions for s Handling in accordanc Conditions for sa Safe storage is guaran	of leaked liquid and flush with water into drains. er sections g and storage safe handling we with the test instruction, that comes with the product. afe storage, including any incompatibilities nteed in the original packaging . Products which are also classified as toxic must be kept n chemical industry): see chapter 12.1 8B	t under lock and key.
SEC 1 7.1	Collect small amounts Reference to oth FION 7: Handling Precautions for s Handling in accordance Conditions for sa Safe storage is guaran Storage class (German Storage class (VCI): Water hazard class (I Requirements fo	of leaked liquid and flush with water into drains. er sections g and storage safe handling we with the test instruction, that comes with the product. afe storage, including any incompatibilities nteed in the original packaging . Products which are also classified as toxic must be kept n chemical industry): see chapter 12.1 8B	
SEC7 7.1 7.2 7.2.1	Collect small amounts Reference to oth FION 7: Handling Precautions for s Handling in accordance Conditions for sa Safe storage is guaran Storage class (German Storage class (VCI): Water hazard class (I Requirements fo Keep original product 1	of leaked liquid and flush with water into drains. er sections g and storage safe handling we with the test instruction, that comes with the product. afe storage, including any incompatibilities nteed in the original packaging . Products which are also classified as toxic must be kept in chemical industry): see chapter 12.1 BB DE): 3 or stock rooms and containers packages tightly closed during handling and storage, so that they are not immediately ac (s)	
SEC7 7.1 7.2 7.2.1 7.3	Collect small amounts Reference to oth FION 7: Handling Precautions for se Handling in accordance Conditions for se Safe storage is guaran Storage class (VCI): Water hazard class (I Requirements fo Keep original product p parties. Specific end use Product for analytical u	of leaked liquid and flush with water into drains. er sections g and storage safe handling we with the test instruction, that comes with the product. afe storage, including any incompatibilities nteed in the original packaging . Products which are also classified as toxic must be kept in chemical industry): see chapter 12.1 BB DE): 3 or stock rooms and containers packages tightly closed during handling and storage, so that they are not immediately ac (s)	
SEC7 7.1 7.2 7.2.1 7.3	Collect small amounts Reference to oth FION 7: Handling Precautions for se Handling in accordance Conditions for se Safe storage is guaran Storage class (VCI): Water hazard class (I Requirements fo Keep original product p parties. Specific end use Product for analytical u	of leaked liquid and flush with water into drains. er sections g and storage safe handling we with the test instruction, that comes with the product. afe storage, including any incompatibilities need in the original packaging . Products which are also classified as toxic must be kept in chemical industry): see chapter 12.1 BE DE): 3 or stock rooms and containers packages tightly closed during handling and storage, so that they are not immediately action (s) use. e controls /personal protection	
SEC1 7.1 7.2 7.2.1 7.3 SEC1	Collect small amounts Reference to oth FION 7: Handling Precautions for se Handling in accordance Conditions for se Safe storage is guaran Storage class (VCI): Water hazard class (IVCI): Water hazard class (VCI): Water hazard class (IVCI): Beguirements for Keep original product parties. Specific end use Product for analytical u FION 8: Exposure Control parameted 25 mL Cl 2 -2 Chemical: boo DNEL:	of leaked liquid and flush with water into drains. er sections g and storage safe handling we with the test instruction, that comes with the product. afe storage, including any incompatibilities need in the original packaging . Products which are also classified as toxic must be kept in chemical industry): see chapter 12.1 BE DE): 3 or stock rooms and containers packages tightly closed during handling and storage, so that they are not immediately action (s) use. e controls /personal protection	ccessible to outside
SEC1 7.1 7.2 7.2.1 7.3 SEC1	Collect small amounts Reference to oth FION 7: Handling Precautions for se Handling in accordance Conditions for se Safe storage is guaran Storage class (German Storage class (VCI): Water hazard class (I Requirements fo Keep original product p parties. Specific end use Product for analytical u FION 8: Exposure Control parameted 25 mL Cl 2-2 Chemical: bor DNEL: DNEL = Deri	of leaked liquid and flush with water into drains. er sections g and storage safe handling we with the test instruction, that comes with the product. afe storage, including any incompatibilities need in the original packaging . Products which are also classified as toxic must be kept in chemical industry): see chapter 12.1 8B DE): 3 or stock rooms and containers packages tightly closed during handling and storage, so that they are not immediately ac (s) use. e controls /personal protection ers ric acid [derm] 392 mg/kg bw/day; [inh] 8.3 mg/m ³	ccessible to outside
SEC1 7.1 7.2 7.2.1 7.3 SEC1	Collect small amounts Reference to oth FION 7: Handling Precautions for se Handling in accordance Conditions for se Safe storage is guaran Storage class (German Storage class (VCI): Water hazard class (IVCI): Water hazard class (IVCI): Water hazard class (IVCI): Water hazard class (IVCI): Specific end use Product for analytical u FION 8: Exposure Control parameter 25 mL Cl 2 -2 Chemical: boo DNEL: DNEL = Deri PNEC (fresh water) PNEC (fresh	of leaked liquid and flush with water into drains. er sections g and storage safe handling the with the test instruction, that comes with the product. afe storage, including any incompatibilities inteed in the original packaging . Products which are also classified as toxic must be kept in chemical industry): see chapter 12.1 BB DE): 3 or stock rooms and containers packages tightly closed during handling and storage, so that they are not immediately act (s) use. e controls /personal protection ers ric acid CAS No.: 10043 [derm] 392 mg/kg bw/day; [inh] 8.3 mg/m ³ ved No-Effect Level (for workers) : 2.9 mg/L dicted NO Effected Concentration 0.5 E mg/m ³ E/c respirately tre factor: 2 (1), Y ve (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainl	ccessible to outside 3-35-3



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	NIOSH:	thyl-1,4-phenylene diammonium sulfate not listed	CAS No.: 6283-6	
	OSHA:	ed average to a reference period of 8 hours, [STEL] Short-term e not listed	xposure limit related to a 15-minute pe	riod
	Chemical: <i>sulfuric</i> DNEL: DNEL = Derived No	acid [inh] 50 μg/m³ ⊦Effect Level (for workers)	CAS No.: 7664-9	93-9
	PNEC (fresh water) : PNEC = Predicted	2.5 µg/L No Effected Concentration		
	EU value: TRGS 900 (DE):	0.1 e mg/m ³ 0.1 E mg/m ³ E/e respirable		
		respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic	(Z) not securely excluded / (Y) certainly	y excluded
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weight	0,1 e mg/m ³ NTP Report on Carcinogens (RoC) List Yes (ed average to a reference period of 8 hours, [STEL] Short-term e	Known to be a human carcinoc xposure limit related to a 15-minute pe	gen); [TWA] 1 mg/m³ ^{riod}
	OSHA:	[TWA] 1 mg/m³		
.2	level of cleanliness must be	tion system in the room, floor resistant to chemicals maintained at the workplace.	with floor drainage and washin	g facilities. The highest
.2.1	Respiratory protectio No additional recomme			
.2.2		d protection EN 374 (permeation time >30 min - level 2), consist imes chemical resistant latex gloves with code EN 3		, or Nitril (f.ex. from Anso
.2.3	Eye / Face Protection Yes, safety glasses acc	cording EN 166 with integrated side shields or wrap-	around protection.	
.2.4	Skin protection Recommended to avoid	d contamination with these hazards.		
.2.5	with the skin, eyes and	ng, taking snuff and storage of food in work areas ar clothing. Rinse any clothing on which the substance nd water when stopping work and before eating, and	has been spilled, and soak it i	in water. Wash hands
.2.6	Thermal hazards no data available			
.3	Limitation and monit	oring of environmental exposure environment.		
BECT	ION 9: Physical and	d chemical properties		
.1	Information on basic	physical and chemical properties		
	25 mL Cl ₂ -2 a) State of aggregation			

a) State of aggregation:	
b) Colour:	colourless
c) Odor:	red
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
 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:	1,1 g/cm ³
q) Relative vapour density _(air=1) :	no data available
r) Particle size:	no data available



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9.2 Other information

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**

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

- 10.2 Chemical stability no known instability.
- **10.3 Possibility of hazardous reactions** No further data available.
- 10.4 Conditions to avoid No more required.
- **10.5 Incompatible materials** no additional data available

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 the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

25 mL Cl ₂ -2 Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 orl rat : LC50 ihl rat :		listed not listed PRTR: ≥1,0%B class not listed not listed	California Proposition 6 Canada CEPA I, Japan PDSCL: not lis	65 List: not liste 1999: DSL ye	
Carcinogenic Effects: EU carcinogen: TRGS 905 (DE):	: May da	amage fertility. May da R _D 1B, R _F 1B R _E 2, R _F 2	mage the unborn child.		
Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: LD50 orl rat :	N,N-Di	ethyl-1,4-phenylene d listed (CAS 6065-27-1 not listed not listed, Japan PDS not listed not listed 497 mg/kg	6)California Proposition 6 Canada CEPA	5 List: not liste	
Chemical: TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: dental erosion; eye, s	<i>sulfuric</i> skin burr	listed 1 ppm inhalation, ingestion, Eyes, skin, respirator irritation eyes, skin, n ns; dermatitis	ose, throat, pulmonary e	5 List: not liste edema, bronch	itis; emphysema; conjunctivitis; stomatis
Australia NICNAS:		not listed	Canada CEPA	1999: DSL Ye	S



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FILLING	uale. 22.11.2022	Date of Issue, 21.09.2022		Version: 2.2.2.1
	Japan ISHL: I South Korea TCCA: Korea Exist.Chem.Inventory: I LD50 _{orl rat} :	not listed, Japan PDSCL: Deleterious Substance isted ≥1,0%/≥1,0%, Article 57-2 (SDS required) Accident Precaution Chemical Yes KE-32570, >10% Toxic 97-1-405, Acc. Precaution 2140 mg/kg 0,85 mg/L/4H	Chem.	
	TRGS 905 (DE):	Kat 4		
1.2	Other hazards			
	Possible endocrine disruption no data available	ng effects		
	Other information no additional data available			
SECT	ION 12: Ecological info	rmation		
2.1	Toxicity			
	Following information is valid fo	r pure substances.		
	25 mL Cl ₂ -2 Chemical: <i>boric ac</i> PNEC (fresh water) : PNEC = Predicted No Effected Conce		CAS No.: 10043-35	5-3
	LC50 fish/96h : EC50 daphnia/48h : IC50 scenedesmus quadricauda/72h EC10 pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient (o/w) : Storage class (VCI):	[4d] 79.7 mg/L 91-165 mg/L [72h] 52.4 mg/L [EC10] 10 mg/L 1 WGK No.: 0315 -1,09 6.1 D		
	Chemical: <i>N,N-Die</i> Water hazard class (DE): Storage class (VCI):	thyl-1,4-phenylene diammonium sulfate 3 12-13	CAS No.: 6283-63-	2
	Chemical: <i>sulfuric</i> PNEC (fresh water) : PNEC = Predicted No Effected Conce		CAS No.: 7664-93-	9
	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		
2.2	Persistence and degradab	ility		
2.3	Bioaccumulative potential			
2.4	Mobility in soil			
_ .7	not necessary			
	·····,			

and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 **Endocrine disrupting properties**

no data available

12.7 Other adverse effects

no additional data available



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SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06). Close container tightly.

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Dispose of contents/container to regulated waste treatment.

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

Chemicals Prohibition Ordinance - (DE: ChemVerbotsV), aktualisiert Jan 2017

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

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

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 2.2.2.10 and 2.2.2.2 following changes were applied: - 8 substance data corrected

16.2 List of H and P phrases

1	List of relevant H	List of relevant H phrases		
	H315	Causes skin irritation.		
	H319	Causes serious eye irritation.		
	H360FD	May damage fertility. May damage the unborn child.		

 16.2.2
 List of relevant P phrases

 P201
 Obtain special instructions before use.

 P280sh
 Wear protective gloves/eye protection.

 P308+313
 IF exposed or concerned: Get medical advice/attention.

 P405
 Store locked up.

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.



16.2.1

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

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16.4 Sources of key data

KÜHN, BIRETT leaflets on dangerous working materials

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

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at workSUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU Adaptation of the CLP Regulation 1272/2008/EU to technical and scientific progress

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET

Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

TRGS 905, German engineering rules for carcinogenic and mutagenic substances, as of March 18, 2016Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019

Regulation 878/2020/EU

Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Revisions/Updates

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

2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU

16.5 Further information

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16.6 Legend / Abbreviations

Logona / P	
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:	dog
EC10:	Concentration causing a toxic effect in 10% of the test organisms
EC:	European Community
EC-Nr:	Substance number of the EC substance inventory
EmS:	Guide to accident management measures on ships
EU:	European Union
fish:	fish (not spezified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
ICAO:	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



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mus: Muta: NIOSH: NRD: onchorhynchu orl: OSHA: PAX: PBT:	mouse mutagen National Institute for Occupational Safety and Health (US) Non-rapidly degradable s mykiss: fish, rainbow trout oral Occupational Safety and Health Administration transport on passenger planes allowed persistent, bioaccumulating, toxic substance
pH:	pH value
pimephales pr	omelas: fish, fathead minnow
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: REF:	Registration, Evaluation, Authorisation and Restriction of Chemicals
	item number, reference number rRegistration number
Reg.No.: Repr:	harmful to reproduction
Resp:	respiratory
RIP:	REACH Implementations Projects
SCU:	sub cutan
SDS:	safety data sheet
Sens:	sensitisation
STEL:	short term exposure limit
STOT:	Specific Target Organ Toxicity
SVHC:	Substance of Very High Concern
t/a:	tons per year
TCCA:	Toxic Chemicals Control Act (S. Korea)
Tox:	toxic
TSCA:	The Toxic Substances Control Act (US)
TWA:	time weighted average
TRGS:	technical regulations (DE)
vPvB:	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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