MACHEREY-NAGEL



Safety Data Sheet

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

REF: 985071	NANOCOLOR Nickel 4	Page: 1/10
Printing date: 06.04.2022	Date of issue: 16.03.2022	

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

1.1 Product identifier

REF Product name 985071 NANOCOLOR Nickel 4

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.

20 x 10 mg Nickel 4, lyophilizied (R0) 2 x 11 mL Nickel 7 (R2)

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

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

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:

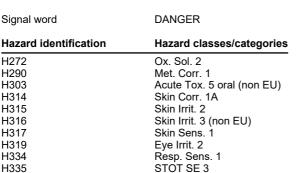
http://www.mn-net.com/SDS

GHS08

SECTION 2: Hazard identification

2.0 Classification of the complete product





2.1 Classification of the substance or mixture

10 mg Nickel 4, lyophilizied (R0)



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GHS07

GHS08

Signal word DANGER Hazard identification Hazard classes/categories H272 Ox. Sol. 2 H303 Acute Tox. 5 oral (non EU) H315 Skin Irrit. 2 Skin Irrit. 3 (non EU) H316 H317 Skin Sens. 1 H319 Eye Irrit. 2 H334 Resp. Sens. 1 STOT SE 3 H335

GHS03

11 mL Nickel 7 (R2)

	GHS05	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H290 H314	Met. Corr. 1 Skin Corr. 1A	

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). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 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). This labelling exemption is NOT valid for sensibilizing substances. Oxidizing mixtures with signal word: DANGER and H272 must not be labelled with H and P phrases until 125 mL 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 mg Nickel 4, lyophilizied (R0)



GHS03 GHS07

Signal word: DANGER

H317. H334

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P280sh, P342+311

Avoid breathing dust/vapours. Wear protective gloves/eye protection. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

11 mL Nickel 7 (R2)





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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.

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. 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.

Cause after inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

Information pertaining to particular risks to the environment

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

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

10 mg Nickel 4, lyophilizied (R0)

NICKEI 4, IYOPHIIIZIEG (RU)	
Chemical: sodium	peroxodisulfate	CAS No.: 7775-27-1
Classification:	H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit.	2, H317, Skin Sens. 1, H319, Eye Irrit. 2,
H334, Resp. Sens. 1,	H335, STOT SE 3	
Formula:	Na ₂ O ₈ S ₂	
Pseudonym:	sodium persulfate	
TSCA Inventory:	listed	
REACH Reg. No.:	01-2119495975-15-xxxx	
EC No.:	231-892-1	
RTECS:	SE0525000	
KE No.:	KE-12369	
Concentration:	20 - <45 %	
acc. CLP (GHS):	H272, Ox. Liq. 2, H315, Skin Irrit. 2, H317, Skin Sens. 1, H	319, Eye Irrit. 2, H334, Resp. Sens. 1,
H335, STOT SE 3		
Chemical: citric ac		CAS No.: 77-92-9
Classification	H303 Acute Tox 5 oral H316 Skin Irrit 3 H319 Eve Irrit	2 H335 STOT SE 3

H303, Acute Tox. 5 oral, H316, Skin Irrit. 3, H319, Eye Irrit. 2, H335, STOT SE 3 Classification: Formula: C₆ H₈ O₇ 2-hydroxy-1,2,3-propanetricarboxylic acid Pseudonym: TSCA Inventory: listed 01-2119457026-42-xxxx REACH Reg. No.: EC No.: 201-069-1 GE7350000/GE7810000 RTECS: KE No .: KE-20831 Concentration. 60 - <80 % H303, Acute Tox. 5 oral, H316, Skin Irrit. 3, H319, Eye Irrit. 2, H335, STOT SE 3 acc. CLP (GHS):

11 mL Nickel 7 (R2)



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	Chemical: sodiu	m hydroxide solution		CAS No.: 1310-73-2	
	Classification:	H290, Met. Corr. 1, H314, Ski	n Corr. 1B		
	Formula:	NaOH•H ₂ O			
	Pseudonym:	soda lye			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119457892-27-xxxx			
	EC No.:	215-185-5	Indice No.:	011-002-00-6	
	RTECS:	WB4900000			
	KE No.:	KE-31487			
	Concentration:	10 - <20 %	0 15		
	acc. CLP (GHS):	H290, Met. Corr. 1, H314, Ski	n Corr. 1B		
	Chemical: dimet	hylglyoxime		CAS No.: 95-45-4	
	Classification:	No criteria for classification or naming	of chemical not required.		
	Formula:	C4 H8 N2 O2			
	Pseudonym:	diacetyl dioxime, 2,3-butanedi	one, 2,3-dioxime		
	TSCA Inventory:	listed			
	REACH Reg. No.:	not necessary, amount <1 t/a			
	EC No.:	202-420-1		00002117	
	RTECS: Concentration:	EK2975000 < 0,10 %	MFCD:	00002117	
	acc. CLP (GHS):	,	1611 - 1		
	acc. CEI (GI13).	The criteria for classification are not fu	Jimea.		

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. Take to a doctor, in a raised position if there are breathing difficulties.

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.

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. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

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. Inform patient respectively further measures and the possibility of long-term damages. ---



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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.

5.2 Special hazards arising from the substance or mixture

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. Use only in well-ventilated working areas. Use a safety bottle when shaking test tubes.

7.2 Conditions for safe storage, including any incompatibilities

 The original product package of MACHEREY-NAGEL allows a safe storage.

 Storage class (VCI):
 5.1B

 Water hazard class (DE):
 2

 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.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

10 mg Nickel 4, lyophilizied Chemical: sodium perox NIOSH: [TWA] Time-weighted aver		CAS No.: 7775-27-1 lated to a 15-minute period
OSHA:	not listed	
Chemical: <i>citric acid</i> PNEC _(fresh water) : PNEC = Predicted No Effe	440 mg/L cted Concentration	CAS No.: 77-92-9
TRGS 900 (DE):	2 E mg/m³ E/e respirable	
Short-term exposure factor:	2 (I) Y	



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skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

11 mL Nickel 7 (R2) sodium hydroxide solution CAS No.: 1310-73-2 Chemical: DNEL: [inh] 1 mg/m³ DNEL = Derived No-Effect Level (for workers) 2 mg/m³ E/e respirable TRGS 900 (DE): Short-term exposure factor: (=1=, Y) skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 2 e mg/m³ NIOSH: 2 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: [TWA] 2 mg/m³

Chemical: dimethylglyoxime CAS No.: 95-45-4

8.2 **Exposure controls**

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 **Respiratory protection**

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

8.2.2 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3 Eye protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection or face protection.

8.2.4 Skin protection

Recommended to avoid clothing damage, and to avoid contamination with these hazards.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

10 mg Nickel 4, lyophilizied (R0)

Colour: white Appearance: solid 2-3 0-100 % Solubility in water:

11 mL Nickel 7 (R2) Appearance: liquid Specific gravity:

Colour: colourless 13-14 1,15 g/cm³ 0-100 %

Odor: odorless

Odor: odorless

9.2 Other information

pH:

pH:

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**

SECTION 10: Stability and reactivity

Solubility in water:

10.1 Reactivity

Strong CORROSIVE, no further data available.



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Prinung	Juale. 06.04.2022	Date of Issue. 16.03.2022				
10.2	Chemical stability No known instability.					
0.3	Possibility of hazar Can react violently with or	dous reactions ganic material. No further data available.				
0.4	Conditions to avoid Not necessary. Observe I	beled storage temperature				
0.5	Incompatible mater Avoid contact with strong					
0.6	In the original package all	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.				
SECT	ION 11: Toxicolog	ical information				
1.1	Information on toxi	•				
	•	valid for pure substances. Quantitative data on the	e toxicity of this product are not available.			
		sodium peroxodisulfate listed California Proposition Yes (PEC/18) Canada CEPA not listed, Japan PDSCL: not listed listed ≥1,0%/≥0,1%, Article 57-2 (SDS requir not listed rentory: KE-12369 902 mg/kg after inhalation of vapours/dust, skin contact, impairr	(1999: DSL Yes red)			
	Chemical: TSCA Inventory: Korea Exist.Chem.In LD50 _{orl rat} : LC50 _{ihl rat} : LD50 _{drm rat} : LD50 _{orl mus} : LD50 _{scu rat} :	g difficulties if inhaled. <i>citric acid</i> listed rentory: KE-20831 >3000 mg/kg 5800 mg/kg 5400 mg/kg 5500 mg/kg after inhalation of vapours/dust, impairments of heal	CAS No.: 77-92-9			
	11 ml Niekol 7 (P2)					
	11 mL Nickel 7 (R2) Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50ort rat : LD50drm rbt : LD50ort mus :	not listed Canada CEPA not listed, Japan PDSCL: not listed listed ≥1,0%/≥1,0%, Article 57-2 (SDS requir not listed	t eumonitis; eye, skin burns; temporary loss of hair \ 1999: DSL Yes			
	Chemical: TSCA Inventory: LD50 _{orl rat} :	<i>dimethylglyoxime</i> listed 250 mg/kg	CAS No.: 95-45-4			



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SECT	ION 12: Ecological informati	ion	
12.1	Toxicity		
	Following information is valid for pure s	substances.	
	10 mg Nickel 4, lyophilizied (R0) Chemical: sodium per Water hazard class (DE): Storage class (VCI):	oxodisulfate 1 WGK No.: 1352 5.1 B	CAS No.: 7775-27-1
	Chemical: citric acid PNEC(fresh water) : PNEC = Predicted No Effected Concentra	440 mg/L ation	CAS No.: 77-92-9
	LC50 _{leuciscus} idus/96h : EC50 _{daphnia} /48h : IC50 _{scenedesmus} quadricauda/72h : EC10 _{pseudomonas} putita/16h : Water hazard class (DE): Dispersion coefficient _{(octanol-water} Storage class (VCI):	440-760 mg/L 1535 _{24h} mg/L 7d: 425-640 mg/L EC0: >10 g/L 1 WGK No.: 0057	
	11 mL Nickel 7 (R2) Chemical: sodium hyd Avoid contact of substance/mixtu LC50 _{leuciscus idus/96h} : LC50 _{fish/96h} : EC50 _{daphnia/48h} : Water hazard class (DE): Storage class (VCI):	froxide solution re to environment. 35-189 mg/L 45.4 mg/L >100 mg/L 1 WGK No.: 142 8 B	CAS No.: 1310-73-2
	Chemical: <i>dimethylgly</i> Water hazard class (DE): Storage class (VCI):	oxime 2 12-13	CAS No.: 95-45-4
12.2	Persistence and degradability not necessary		
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB asses no data available	sment	
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

SECTION 14: Transport information

14.1. UN number: 14.3. Class:		UN proper shipping Packing group: II	name: Chemical Kit
Road transport			
Classification code:	M11	Tunnel restriction coo	de: E
Limited Quantity:	acc. ADR 3.3	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:	Α



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Or use Alternative declaration for transportation:

UN No.: (see below) class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2

or 14.1 UN number: 3266 14.2 UN proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide solution) 14.3 Class: 14.4 Packing group: 8 Road transport Classification code: C5 Limited Quantity: Tunnel restriction code: Е 1 L Excepted Quantity: F 2 Air transport PAX max. weight PAX: 851 11 CAO: 855 max. weight CAO: 30 L Maritime transport F-A, S-B EmS: Storage category: В

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 relevant H phrases H272 May intensify fire; oxidizer. May be corrosive to metals. H290 H303 May be harmful if swallowed. (not regulated in EU-CLP) H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H316 Causes mild skin irritation. (not regulated in EU-CLP) May cause an allergic skin reaction. H317 H319 Causes serious eve irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334 H335 May cause respiratory irritation. 16.1.2 List of relevant P phrases P260sh Do not breathe dust/vapours. P280sh Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P303+361+353 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.

16.2 Training advice



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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

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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

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

