CHEREY-NAGE



Safety Data Sheet

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

Drinting	318	QUANTOFIX Cyanide	Page: 1/13
Printing	date: 22.11.2022	Date of issue: 24.10.2022	Version: 2.2.2.4
		e substance/mixture and of the company	
1.1	Product identifier	04040	
	REF no data available	91318 QUANTOFIX Cyanide	
	REACH Registration number(s):		
	A registration number for the su	ibstance(s) does not exist because the annual tonnage does not require registration or	
	the substance or its use is excl	uded from registration.	
	1 x 100 test strips		
	1 x 7 g CN ⁻ -1		
	1 x 25 mL CN ⁻ -2	UFI: AYAV-U3SR-1204-1T97	

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. If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use 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 Phone: +49 2421 969 0

1.4 Emergency telephone number

Roth GmbH + Co Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service perienstr. 3-5 DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730 Character 76185 Karlsruhe, Germany <http://www.mn-net.com/SDS> Karlsrune, 5606 0 sicherheit@carlroth.de

You find our current versions of SDS in Internet:

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

Lieferant

SECTION 2: Hazard identification

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



Signal word	DANGER
Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H332	Acute Tox. 4 inh.
H334	Resp. Sens. 1

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008 25 mL CN - -2



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	GHS02 GHS07 GHS08	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H332 H334	Acute Tox. 4 inh.	
N334	Resp. Sens. 1	
100 test strips		
Signal word	Do not need labelling as hazardous	
-		
No hazard class		
7 g CN ⁻ -1		
	Do not need labelling as hazardous	
Signal word	-	
No hazard class		
List of H phrases: see section 16.2		
2.2 Label elements according		
	kages must be only labelled with GHS symbol(s) and product identi res with signal word: WARNING and highly flammable chemicals/m	

- 1.5.1.2). Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

25 mL CN - -2



Signal word: DANGER H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261sh, P342+311 Avoid breathing dust/vapours.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

100 test strips

Do not need labelling as hazardous Signal word: -

7 g CN - -1

Do not need labelling as hazardous Signal word: -

Label elements of the complete product





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	Signal word: DANG H334	ER	
		or asthma symptoms or breathing difficulties if inhaled.	
		st/vapours.If experiencing respiratory symptoms: Call a POISON CENTE	R/doctor.
2.3	Other hazards		
	Possible hazards from phy	sicochemical properties	
		less than 5 or higher than 9 then it is irritant. Flammable properties.	
		articular risks to human and possible symptoms lealth when ingested in small quantities. May cause allergy or asthma sy	mptoms or breathing
	Information pertaining to p PBT: vPvB:	articular risks to the environment not applicable not applicable	
	Possible endocrine disrup no data available		
	Other hazards Contains an odor intensive re	eagent.	
SEC	TION 3: Composition / i	nformation on ingredients	
8.1	Substances or 3.2 Mixtur	es	
	25 mL CN ⁻ -2		
	Substance name: CAS No.:	pyridine 110-86-1	
	Substance rating: Formula: Pseudonym (de):	H225, Flam. Liq. 2, H302, Acute Tox. 4 oral, H312, Acute Tox. 4 dern C ₅ H ₅ N Azin, Azabenzol	n., H332, Acute Tox. 4 inh.
	REACH Reg. No.: EC No.:	01-2119493105-40-xxxx 203-809-9 Indice No.: 613-002-0	00-7
	Concentration: acc. CLP (GHS):	32 - <44 % H226, Flam. Liq. 3, H332, Acute Tox. 4 inh.	
	Substance name: CAS No.:	chloramine T 127-65-1	
	Substance rating: Formula:	H302, Acute Tox. 4 oral, H314, Skin Corr. 1B, H334, Resp. Sens. 1, E C ₇ H ₇ CINNaO ₂ S	EUH031, 031 not defined
	Pseudonym (de): EC No.: Concentration:	Tosylchloramid-Na 204-854-7 Indice No.: 616-010-0 1 200 616-010-0	00-9
	acc. CLP (GHS):	1 - <3 % H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1	
	100 test strips		
	Substance name: CAS No.:	<i>cellulose paper</i> 9004-34-6	
	Substance rating: Formula: REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS): Substance name: CAS No.:	No criteria for classification or naming of chemical not required. (C $_6$ H $_{10}$ O $_5$) n exempt, Annex IV 232-674-9 1 - <10 % The criteria for classification are not fulfilled. chemicals/mixture until 1%	
	Substance rating: Concentration:	No criteria for classification or naming of chemical not required. 0.1 - <1%	



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	Substance name: CAS No.:	PVC foil (CAS 9002-86-2) -	
	Substance rating: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. 95 - <100 $\%$ The criteria for classification are not fulfilled.	
7 g CN	1 Substance name: CAS No.:	phosphates (buffer salts) -	
	Substance rating: Formula: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. K/Na ₁₋₃ H ₂₋₀ PO ₄ 75 - <100 % The criteria for classification are not fulfilled.	
Domorko	()		

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

4.1.1 After SKIN Contact

Remove dust with wetted tissue. Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

4.1.2 After EYE Contact

Rub dust with teardrops from eyes or: 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. 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. After inhalation of dust fresh air should be inhaled. ---

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Chronic effects: Repeated contact, even in small amounts, can lead to sensitization.

4.3 Indication of any immediate medical attention and special treatment needed

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

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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible.

5.3 Advice for firefighters

No, for listed product.Product package burns like paper or plastic.



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5.4 Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures 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

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

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.

7.2 Conditions for safe storage, including any incompatibilities Safe storage is guaranteed in the original packaging . Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 3 Water hazard class (DE): 2 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. If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

25 mL CN - -2 Chemical: <i>pyridine</i> PNEC (fresh water) : PNEC = Predicted No Eff	300 μg/L	CAS No.: 110-86-1
EU value: TRGS 900 (DE):	[TWA] 5 ppm / 15 mg/m³ [8h] 5 ppm / 15 mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respir	2 (II) atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely	excluded / (Y) certainly excluded
SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted ave	5 ppm / 15 mg/m³ [TWA] 5 ppm / 15 mg/m³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit re	lated to a 15-minute period
OSHA:	[TWA] 5 ppm / 15 mg/m³	
Chemical: chloramine T NIOSH: [TWA] Time-weighted ave OSHA:	not listed rage to a reference period of 8 hours, [STEL] Short-term exposure limit re not listed	CAS No.: 127-65-1 lated to a 15-minute period
100 test strips Chemical: <i>cellulose pap</i> TRGS 900 (DE):	er Staub 1.25 A / 4 E mg/m³ E/e respirable	CAS No.: 9004-34-6
SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted ave	3 a ppm TWA 10 (total) / 5 (resp) mg/m ³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit re	lated to a 15-minute period
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	OSHA:	TWA 15 (total) / 5 (resp) mg/m³		
	Chemical:	chemicals/mixture until 1%	CAS No.: -	
	Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -	
	7 g CN ⁻ -1 Chemical:	phosphates (buffer salts)	CAS No.: -	
8.2	Exposure co The highest level	ntrols of cleanliness must be maintained at the workplace.		
8.2.1	Respiratory Use for oper	protection access of these substances for example a protection	filter, class A/AX. No additional recomme	endations.
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 F Yes, safety g	Protection glasses according EN 166 with integrated side shields	or wrap-around protection.	
8.2.4	Skin protec Recommend	tion led to avoid contamination with these hazards.		
8.2.5	with the skin	giene ing, smoking, taking snuff and storage of food in work , eyes and clothing. Rinse any clothing on which the s rith soap and water when stopping work and before ea	ubstance has been spilled, and soak it in	water. Wash hands
8.2.6	Thermal ha no data avai			
8.3		d monitoring of environmental exposure)	

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

 b) Colour: c) Odor: d) Melting point: e) Boiling point: f) Flammability: g) Explosive limits (lower / upper): h) Flash point: i) Flashing temperature: j) Decomposition temperature: k) pH value: l) Kinematic viscosity: m) Solubility in water: n) Dispersion coefficient (o/w) : o) Vapour pressure (20°C): p) Specific gravity: q) Relative vapour density (air=1): r) Particle size: 	red no data available no data available no data available 27 °C no data available 27 °C no data available 8-9 no data available 0-100 % no data available 0,99 g/cm ³ no data available no data available no data available
---	---

100 test strips

- a) State of aggregation:

- b) Colour:c) Odor:d) Melting point:
- e) Boiling point:
- f) Flammability:
- g) Explosive limits (lower / upper):



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colourless red no data available no data available no data available no data available



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h) Flash point:	no data available	
i) Flashing temperature:	no data available	
j) Decomposition temperature:	no data available	
k) pH value:	no data available	
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:	no data available	
q) Relative vapour density (air=1):	no data available	
r) Particle size:	no data available	
7 g CN1		
 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 8-9	
k) pH value:		
I) Kinematic viscosity:	no data available 0-40 %	
m) Solubility in water: n) Dispersion coefficient _(o/w) :	no data available	
o) Vapour pressure (20°C):	no data available	
p) Specific gravity:	no data available	
g) Relative vapour density (air=1) :	no data available	
y) Deutida size		

no data available

- q) Relative vapour density (air=1):
- r) Particle size:

9.2 Other information

Properties relevant to substance groups

SECTION 10: Stability and reactivity

10.1	Reactivity
	no further data available.
10.2	Chemical stability no known instability.
	D

- 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.



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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 CN - -2 Chemical: pyridine CAS No.: 110-86-1 **TSCA** Inventory: California Proposition 65 List: listed cancer listed Exposure Routes: inhalation, skin absorption, ingestion, skin and/or eye contact Eyes, skin, central nervous system, liver, kidneys, gastrointestinal tract, Target Organs: Symptoms: irritation eyes; headache, anxiety, dizziness, insomnia; nausea, anorexia; dermatitis; liver, kidney damage Japan CSCL/PRTR: PRTR: ≥1,0% class I Japan ISHL: listed ≥1,0%/≥0,1%, Korea Exist.Chem.Inventory: KE-29929 800-1600 mg/kg LD50 orl rat : LC_Low ihl rat : 4900 ppm/4H LC_Low orl gpg : 4000 mg/kg LC_Low orl hmn : 500 mg/kg LC50 ihl rat : 15,852 mg/L/4H Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities. TRGS 905 (DE): [DFG] carc. 3B Chemical: chloramine T CAS No.: 127-65-1 TSCA Inventory: California Proposition 65 List: not listed listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes not listed, Japan PDSCL: not listed Japan CSCL/PRTR: Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: 2000-3-1539 1000 mg/kg LD50 orl rat : Acute Effects: Cause after impairments of health when ingested in small quantities. 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. 100 test strips Chemical: cellulose paper CAS No.: 9004-34-6 **TSCA** Inventory: California Proposition 65 List: not listed listed inhalation, skin and/or eye contact Exposure Routes: Target Organs: Eyes, skin, respiratory system Symptoms: irritation eyes, skin, mucous membrane Australia NICNAS: Canada CEPA 1999: DSL yes not listed Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-05339 > 5000 mg/kg LD50 orl rat : LC50 ihl rat : > 5,800 mg/L/4H Chemical: chemicals/mixture until 1% CAS No .: all listed, <1% **TSCA Inventory:** Korea Exist.Chem.Inventory: listed Chemical: PVC foil (CAS 9002-86-2) CAS No.: -**TSCA** Inventory: listed 7 g CN - -1 Chemical: phosphates (buffer salts) CAS No .: -**TSCA** Inventory: all listed Korea Exist.Chem.Inventory: listed LD50 orl rat : > 2000 mg/kg



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1.2	Other hazards						
	Possible endocrine disrup no data available	oting effects					
	Other information no additional data available						
SECT	ION 12: Ecological inf	ormation					
2.1	Toxicity						
	Following information is valid for pure substances.						
	25 mL CN ⁻ -2 Chemical: pyridi PNEC (fresh water) [:] PNEC = Predicted No Effected Co LC50 fish/96h [:] EC50 daphnia/48h [:]	300 μg/L ncentration [EC50 4h] 560-1000 mg/L 320 mg/L	CAS No.: 110-86-1				
	IC50 scenedesmus quadricauda/ EC10 pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient _(o/w) : Storage class (VCI):	72h : IC5/7d: 120 mg/L [EC50 72h] 320 mg/L mg/L 2 WGK No.: 0179 0,64 3					
	Chemical: chlora Water hazard class (DE): Storage class (VCI):	amine T 2 WGK No.: 0640 8 A	CAS No.: 127-65-1				
	100 test strips Chemical: <i>cellul</i> Water hazard class (DE): Storage class (VCI):	ose paper nwg 11	CAS No.: 9004-34-6				
	Chemical: chem Water hazard class (DE): Storage class (VCI):	icals/mixture until 1% 1 12-13	CAS No.: -				
	Chemical: PVC	foil (CAS 9002-86-2)	CAS No.: -				
	7 g CN ⁻ -1 Chemical: phos Water hazard class (DE): Storage class (VCI):	bhates (buffer salts) 1 13	CAS No.: -				
2.2	Persistence and degradability						
2.3	Bioaccumulative potent	al					
2.4	Mobility in soil not necessary						
2.5	Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher						
2.6	Endocrine disrupting pr no data available	operties					
2.7	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).

13.1 Waste treatment methods

SECTION 14: Transport information

14.1. UN number: 14.2. UN proper shi 14.3. Class: Road transport ADR	3316 pping r 9		Chemical Kit Packing group:	н		
Classification code: Limited Quantity: Air transport ICAO	M11 acc. A	DR 3.3	Tunnel restriction 1/251: see LQ in A		E leclaration for transpo	rtation
PAX: CAO: Maritime transport IM	960 960 DG		max. weight PAX max. weight CAO			
EmS:	F-A, S	-P	Storage category	A		
Or use Alternative declaration for transportation: UN 1993 class 3 III, Excepted Quantities (\leq 30 mL/ $\sum \leq$ 1 L) = ADR/ IATA E1 or 14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (pyridine mixture)						
14.3 Class:	3		Packing group:	III		
Road transport ADR Classification code: Limited Quantity: Excepted Quantity: Air transport ICAO Limited Quantity:	F1 5 L E 1	LQ 7		striction coc structions:		
Excepted Quantity: PAX: CAO: <i>Maritime transport IM</i> EmS:	DG F-E, S	E 1 355 366 E	Storage c	togon	max. weight PAX: max. weight CAO: A	60 L 220 L

14.5 Environmental hazards

none

- **14.6** Special precautions for user not necessary
 - 7 Transport in bulk according to
- **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

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 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.



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Safety Data Sheet

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15.2	Chemical safety not necessary for th			
SECT	ION 16: Other i	nformation		
16.1	Changes compared to the last version Between versions 2.2.2.4 and 2.2.2.2 following changes were applied: - 2 substance data corrected			
16.2	List of H and P phrases			
16.2.1	List of relevant H226 H315 H319 H332 H334	H phrases Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
16.2.2	List of relevant P261sh P280sh P304+340	P phrases Avoid breathing dust/vapours. Wear protective gloves/eye protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing.		

- P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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 dangerous working materials

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 the CLP Regulation 1272/2008/EU to technical and scientific progress Regulation 453/2010/EU REACH – REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET TRGS 907, German engineering rules for listing substances and causes of sensitization, updated November 2011Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 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

according acc.

- ADR: Convention concerning the International Carriage of Dangerous Goods by Road Act: acute BAT: biological workplace tolerance value CAO: Cargo Aircraft Only
- carcinogen Carc:
- Chemical Abstracts Service CAS:



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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: ISHL:	intraperitonaeal
LC50:	Industrial Safety and Health Law (Jp) 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 pr	
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: RE:	rapidly degradable
REACh:	repeated Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number
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 Chemicals Control Act (S. Korea) toxic
Tox: TSCA:	Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US)
Tox: TSCA: TWA:	Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US) time weighted average
Tox: TSCA:	Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US)



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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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