MACHEREY-NAGEL



according to Directive 1907/2006/EC (REACh) and 453/2010/EU

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1 Identification of the Substance/Mixture and of the Company

1.1 Product identifier

REF Product name 91318 QUANTOFIX Cyanide / 100

- 1 x 7 g Cyanide-1
- 1 x 25 mL Cyanide-2
- 1 x 100 test strips

1.2 Relevant identified uses of the substance or mixture and uses advised against

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.

1.3 Details of the supplier of the safety data sheet

Emergency telephone number

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel.: +49 2421 969 0

E-mail: msds@mn-net.com

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

Missing subsections are not relevant for the risk assessment of the product and may be omitted programmatically.

2 Hazard Identification

1.4

2.1 Classification of the substance(s) or mixture(s) - in the complete product

Xn

R 42

Directive 1999/45/EC Symbols



R CLP Directive 1272/2008/EC

GHS pictograms



Signal word	DANGER
Hazard identification	Hazard classes/categories
H226 H315 H319 H332 H334	Flammable Liquid cat. 3 Skin Irritation cat. 2 Eye Irritation cat. 2 Acute Tox. 4 inh. Resp. Sens. 1A/1B

2.2 Hazard Description

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 Cause after inhalation of vapours/dust, 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



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	Other Hazards Contains an odor intensive reage	ent. Flammable properties. Vapour forms explosive mixtures with air.	
2.3	Other hazards: Description of	the components	
	7 g Cyanide-1		
	Directive 1999/45/EC		
	Symbols	- do not need labelling as hazardous	
	CLP Directive 1272/2008/EC		
	GHS pictograms Signal word	do not need labelling as hazardous do not need labelling as hazardous	
	No hazard class		
	25 mL Cyanide-2		
	Directive 1999/45/EC		
	Symbols	R 42	
		×	
		Xn	
	CLP Directive 1272/2008/EC		
	GHS pictograms		
	Signal word	GHS02 GHS07 GHS08 DANGER	
	Hazard identification		
	H226	Hazard classes/categories Flammable Liquid cat. 3	
	H315	Skin Irritation cat. 2	
	H319	Eye Irritation cat. 2	
	H332	Acute Tox. 4 inh.	
	H334	Resp. Sens. 1A/1B	
	100 test strips		
	Directive 1999/45/EC	_	
	Symbols	do not need labelling as hazardous	
	CLP Directive 1272/2008/EC		
	GHS pictograms Signal word	do not need labelling as hazardous do not need labelling as hazardous	
	No hazard class		
3 (Composition/Information or	n Ingredients	
3.1	Substances or 3.2 Mixtures		
	Concentration: 75 -	(buffer salts) CAS No.: - 100 % -3 H ₂₋₀ PO ₄	
	TSCA Inventory: all li	sted	
	acc. 1999/45/EC: -	acc. CLP (GHS): not necessary	



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25 mL Cyanide-2			
	idine 25 - 44 % C ₅ H ₅ N : 01-2119493105-40-xxxx		CAS No.: 110-86-1
EC No.: EC No.: RTECS: TSCA Inventory:	203-809-9 UR8400000 listed	Indice No.: MFCD:	613-002-00-7 00011732
acc. 1999/45/EC:		acc. CLP (GHS):	H226, H332
Chemical: <i>chl</i> o Concentration: Formula:	oramine T 1 - 5 % C7 H7 CINNaO2 S		CAS No.: 127-65-1
		onamide, N-chloro-4-methy	yl-benzenesulfonamide, sodium salt
EC No.: RTECS: TSCA Inventory:	204-854-7 XT5616800 listed	Indice No.: MFCD:	616-010-00-9 00000522
acc. 1999/45/EC:		acc. CLP (GHS):	H315, H319, H334
100 test strips			
	ulose 1 - 10 % (C ₆ H ₁₀ O ₅) _n exempt, Annex IV 232-674-9 FJ5691460 listed		CAS No.: 9004-34-6
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
Chemical: <i>che</i> Concentration:	micals/mixture < 1%, no declaration 0.1 - 1 %	n necessary	CAS No.: -
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
Chemical: PV Concentration:	C foil (CAS 9002-86-2) 95 - 100 %		CAS No.: -
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
3.2 Remarks			

List of R and H phrases: see chapter 16

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 Indication of any immediate medical attention and special treatment needed

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



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5	Firefighting Measures	6			
5.1			nd, if applicable, a fire blanket m , DRY POWDER, CARBON DIC	ust be available in a prominent loca XIDE can be used.	tion in the
5.2	Special hazards arisin Formation of hazardous and c	•			
5.3	Advice for firefighters No, for listed product. Product	package burns like paper	or plastic.		
5.4	Additional Information				
6	Accidental Release M	easures			
6.1			nt and emergency proce and precautions on the basis of op	edures perating instructions. Restrictions or	activity
6.2	Methods and material Bind any escaping liquid with Clean any contaminated equip Collect small amounts of leake	inert absorbent. And disportment and floors with plent	se in accordance to local regulary of water.	tions for the disposal of hazardous o	hemicals.
7	Handling and Storage)			
7.1	Precautions for safe h Handling in accordance with the	-	nes with the product. Use only ir	n well-ventilated working areas.	
7.2	Conditions for safe sto The original product package Storage class (German chemi	of MACHEREY-NAGEL all	ows a safe storage.		
7.2.1		Rooms and Containers kages tightly closed during	g handling and storage.		
8	Exposure Controls/Pe	ersonal Protectio	n		
8.1	Control parameters				
	7 g Cyanide-1 Chemical: phosphate: TSCA Inventory:	s <i>(buffer salts)</i> all listed		CAS No.: -	
	25 mL Cyanide-2 Chemical: <i>pyridine</i> EU value: TRGS 900 (DE):	5 ppm / 15 mg/m³ 5 ppm / 15 mg/m³ E/e respirable		CAS No.: 110-86-1	
	SUVA(CH) MAK value:		izable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded		
	TRGS 905 (DE): TSCA Inventory: OSHA:	carc. 3B _{DFG} listed 5 ppm / 15 mg/m³	California Proposition 65	5 List: listed cancer	
	Chemical: <i>chloramine</i> Australia NICNAS:	not listed	Canada CEPA 1999: D	CAS No.: 127-65-1 SL Yes	
	Japan CSCL/PRTR: Japan PDSCL:	not listed not listed	Japan ISHL: no	pt listed	
	South Korea TCCA: TSCA Inventory: NIOSH: OSHA:	not listed listed not listed not listed	California Proposition 65	5 List: not listed	



Version: 1.0

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	100 test str Chemical: TRGS 900 (cellulose	Staub 4 E mg/m³ E/e respirable		CAS No.: 9004-34-6	
	SUVA(CH) Australia NI Japan CSC	CNAS:	3 a ppm not listed not listed	Canada CEPA 19	99: DSL yes	
	Japan PDS South Korea		not listed not listed	Japan ISHL:	not listed	
	TSCA Inver NIOSH: OSHA:		listed not listed not listed	California Proposi	ition 65 List: not listed	
	Chemical:	chemicals/r	mixture < 1%, no declaratio	on necessary	CAS No.: -	
	Chemical:	PVC foil (C	AS 9002-86-2)		CAS No.: -	
8.2	Exposure co		s must be maintained at th	e workplace.		
8.2.1	Only if addi	y Protection tional recomm Iter, class A/A		n or packing insert. Use f	or open access of these substances t	or example a

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.

8.2.4 Skin Protection

Recommended 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.

(solid)

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

7 g Cyanide-1 Color: colourless	Odor: odorless	Appearance: powder
25 mL Cyanide-2 Color: colourless	Odor: like pyridine	Appearance: liquid
100 test strips Color: colored	Odor: odorless	Appearance: solid

9.2 Other information

9.2.1 Safety relevant Basis Data

7 g Cyanide-1 pH: Solubility in water:	8-9 0-40 %
25 <i>mL Cyanide-2</i> pH: Specific gravity: Solubility in water:	8-9 0,99 g/cm³ 0-100 %

100 test strips

9.2.2

Relevant Properties of Substance Group

EN ISO 9001: 2008

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9.3	Additional Inform	nation			
10 S	Stability and Rea	ctivity			
0.1	Conditions to ave				
0.2	Incompatible materials Avoid contact with concentrated acids and oxidizing agents. Avoid contact with strong acids or alkalines.				
0.3	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.				
1 T	oxicological info	ormation			
	11.1 Information on to Following information	oxicological effects n is valid for pure substances. Quantitative data on the toxic	ity of this product are not available.		
	7 g Cyanide-1				
	Chemical: LD50 _{orl rat} :	phosphates (buffer salts) > 2000 mg/kg	CAS No.: -		
	25 mL Cyanide-2				
	Chemical: LD50 _{orl rat} : LC_LoW _{ihl rat} : LC_LoW _{orl} gpg : LC_LoW _{orl} hmn : LC50 _{ihl rat} : LD50 _{drm rbt} :	<i>pyridine</i> 891 mg/kg 4000 _{4h} mg/m³ 4000 mg/kg 500 mg/kg 28500 _{1h} mg/m³ 1121 mg/kg	CAS No.: 110-86-1		
	Chemical: LD50 _{orl rat} :	chloramine T ~1000 mg/kg	CAS No.: 127-65-1		
	100 test strips				
	Chemical: LD50 _{orl rat} : LC50 _{ihl rat} : LD50 _{drm rbt} :	<i>cellulose</i> >5000 mg/kg >5800 _{4h} mg/m³ >2000 mg/kg	CAS No.: 9004-34-6		
	Chemical:	chemicals/mixture < 1%, no declaration necessary	CAS No.: -		
	Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -		
2 E	Ecological inform	nation			
2.1	Toxicity				
	Following information	n is valid for pure substances.			
	7 g Cyanide-1 Chemical: WGK (DE): Storage class	phosphates (buffer salts) 1 s (VCI): 13	CAS No.: -		
	25 mL Cyanide-2 Chemical: LC50fish/96h : EC50daphaia/4	pyridine 4.6 mg/L	CAS No.: 110-86-1		

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IC50scenedesmus quadricauda/72h : IC5/7d: 120 mg/L

2

3

EC50_{daphnia/48h}:

Storage class (VCI):

WGK (DE):

EC10pseudomonas putita/16h

Dispersion coefficient (o-w): 0.65

240_{24h} mg/L

EC5/16h: 340 mg/L

WGK No.: 0179

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Chemical: WGK (DE): Storage class (VCI):	chloramine T 2 WGK No.: 0640 8 A	CAS No.: 127-65-1
100 test strips Chemical: WGK (DE): Storage class (VCI):	<i>cellulose</i> nwg 11	CAS No.: 9004-34-6
Chemical: WGK (DE):	chemicals/mixture < 1%, no declaration necessary 1	CAS No.: -
Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -

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

14 Transport Information

No dangerous goods according the transport regulations

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

Announcement BekGS 220 (DE), Safety Data Sheet, June 2013

According 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have partly/completely exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until 25-125 mL/g. This labelling exemption is NOT valid for sensibilizing mixtures.

According GHS inner packages must be only labelled with symbol(s) and product identificator. Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL or 125 g. This labelling exemption is NOT valid for sensibilizing substances.

7 g Cyanide-1

Directive 1999/45/EC Symbols:

CLP Directive 1272/2008/EC GHS pictograms: do not need labelling as hazardous Signal word: -

25 mL Cyanide-2

Directive 1999/45/EC Symbols:





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R 42

May cause sensitization by inhalation.

S 26-36/37/39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.

CLP Directive 1272/2008/EC GHS pictograms:



Signal word: DANGER

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261S, P304+340, P342+311 Avoid breathing dust. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

100 test strips

Directive 1999/45/EC Symbols:

S 22 Do not breathe dust.

CLP Directive 1272/2008/EC GHS pictograms: do not need labelling as hazardous Signal word:

15.2 **Chemical safety assessment**

not necessary for these small amounts

16 Other Information

16.1 List of R and H phrases

- 16.1.1 List of relevant R phrases
- R10 Flammable. R20 Harmful by inhalation. R42 May cause sensitization by inhalation. 16.1.2 List of relevant H phrases Flammable liquid and vapour. H226 H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

16.2 Training Advice

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 DE §§ 4 und 5 MuSchRiV)! An individual package of this product or test kit has a moderate hazardous potential.

EREV-NAGE (MN) ISO 9001:20 CERTIFIED

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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 TRGS 900, German engineering rules governing limits in air at work, updated July 2012 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

16.6. Revisions/Updates

Reason for Revision: 2014-02 Corrected structure of sections acc. regulation 453/2010/EU, if necessary 2014-04 Adaptation of regulation 487/2013/EU

You find our current versions of MSDS in Internet: http://www.mn-net.com/MSDS

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