MACHEREY-NAGEI



Safety Data Sheet

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

REF: 91328	QUANTOFIX Formaldehyde	Page: 1/9
Printing date: 17.03.2017	Date of issue: 28.02.2017	

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

1.1 **Product identifier**

REF Product name 91328 QUANTOFIX Formaldehyde

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.

> 2 x 25 mL HCHO-1 1 x 100 test strips

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. 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 Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel.: +49 2421 969 0

E-mail: 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

SECTION 2: Hazard identification

2.0 Classification of the complete product

Directive 1999/45/EC Symbols	
R	R 35
CLP Directive 1272/2008/EC GHS pictograms	
	GHS05
Signal word	DANGER
Hazard identification	Hazard classes/categories
H290 H314	Metal Corrosion cat. 1 Skin Corrosion 1A. Serious Damage to E

Skin Corrosion 1A. Serious Damage to Eyes 1

2.1 Classification of the substance or mixture

25 mL HCHO-1

Directive 1999/45/EC

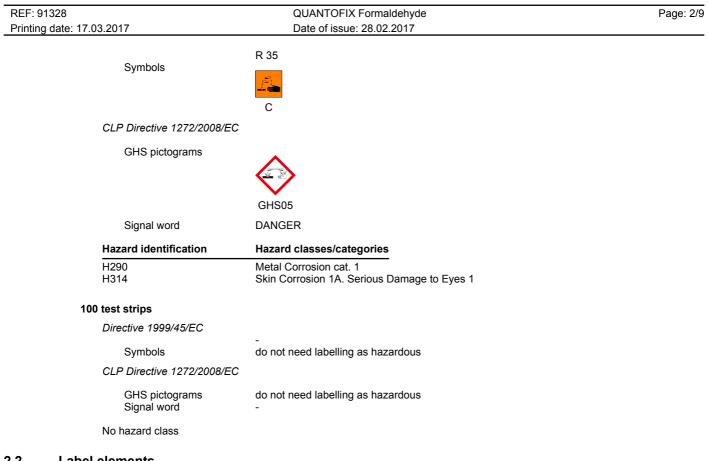
EREY-NAGE $\langle MN \rangle$ EN ISO 9001: 2008 CERTIFIED

Version: 2.4.2

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2.2 Label elements

According CLP (GHS) inner packages must be only labelled with symbol(s) and product identificator (EU 1272/2008 Annex I - 1.5.1.2).

25 mL HCHO-1

Directive 1999/45/EC Symbols:



R 35 Causes severe burns.

S 26-37/39 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

CLP Directive 1272/2008/EC GHS pictograms:



Signal word: DANGER

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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/...

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: -

2.3 Other hazards

Possible Hazards from physicochemical Properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive.

Information pertaining to particular Risks to Human and possible Symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

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

25 mL HCHO-1

_				
	Chemical: sodiun	n hydroxide solution		CAS No.: 1310-73-2
	Concentration:	20 - <35 %		
	Formula:	NaOH•H2 O		
	Pseudonym: soda l	ye		
	REACH Reg. No.:	01-2119457892-27-xxxx		
	EC No.:	215-185-5	Indice No.:	011-002-00-6
	RTECS:	WB4900000		
	TSCA Inventory:	listed		
	KE No.:	KE-31487		
	acc. 1999/45/EC:	R 35	acc. CLP (GHS):	H290, H314
			· · · ·	

100 test strips



Version: 2.4.2

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Printing date: 17.03.2017	2017 Date of issue: 28.02.2017			
Chemical: <i>cellul</i> Concentration: Formula: REACH Reg. No.: EC No.: RTECS: TSCA Inventory:	ose 1 - <10 % (C ₆ H ₁₀ O ₅) _n exempt, Annex IV 232-674-9 FJ5691460 listed		CAS No.: 9004-34-6	
KE No.: acc. 1999/45/EC:	KE-05339 -	acc. CLP (GHS):	not necessary	
Chemical: <i>chem</i> Concentration: KE No.:	icals/mixture < 1%, no declara 0,1 - <1 % listed	ation necessary	CAS No.: -	
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary	
Chemical: PVC Concentration:	foil (CAS 9002-86-2) 95 - <100 %		CAS No.: -	
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary	

3.3 Remarks

List of R, H and P phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

4.1.1 After SKIN Contact

Remove dust with wetted tissue. 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

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

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

Avoid inhalation of dust. ---

4.3 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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.



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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

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 necessarv

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.

7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 8B Water hazard class (DE): 1

Requirements for Stock Rooms and Containers 7.2.1 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.

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 HCHO-1

Chemical: sodium hydroxide solution CAS No.: 1310-73-2 DNEL: 1_{inh} mg/m³ DNEL = Derived No-Effect Level (for workers) TRGS 900 (DE): (2 E) mg/m³ È/e réspirable 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 ma/m^3 OSHA. TWA 2 ma/m³

100 test strips - 11 - 1 - - -

	CAS No.: 9004-34-6
Staub 1.25 A / 4 E mg/m³ E/e respirable	
3 a ppm	
TWA 10 (total) / 5 (resp) mg/m ³	
TWA 15 (total) / 5 (resp) mg/m ³	
	E/e respirable 3 a ppm TWA 10 (total) / 5 (resp) mg/m³



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Chemical:	chemicals/mixture < 1%, no declara	ation necessary	CAS No.: -
Chemical:	PVC foil (CAS 9002-86-2)		CAS No.: -
8.2 Exposure co The highest level	ntrols of cleanliness must be maintained a	t the workplace.	
	Protection Il recommendations.		
Yes, gloves	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 Protect Yes, safety g		ated side shields or v	wrap-around protection or face protection.
8.2.4 Skin Protec Recommend	on ed to avoid clothing damage, and to avoid contamination with these hazards.		
with the skin			
SECTION 9: Physi	ical and chemical prope	erties	
9.1 Information	on basic physical and chem	ical properties	
25 mL HCH Appearance pH: Specific grav Solubility in t	: liquid Colo 14 vity: 1,35 g/mL	r: colourless	Odor: odorless
100 test str i Appearance		or: colored	Odor: odorless
9.2 Other inform Relevant Proper	ation rties of Substance Group		
SECTION 10: Stat	oility and reactivity		
10.1 Reactivity			

- Reactivity No data available
- 10.2 **Chemical stability** No known instability.
- 10.3 Possibility of hazardous reactions No data available.
- 10.4 Conditions to avoid Not necessary. ---
- 10.5 Incompatible materials

Avoid contact with concentrated acids and oxidizing agents. Avoid contact with strong acids or alkalines.

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 inf	ormation	

11.1 Information on toxicological effects

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

25 mL HCHO-1

Chemical: se	odium hydroxide solution		CAS No.: 1310-73-2	
TSCA Inventory:	listed Cali	d California Proposition 65 List: not listed		
Exposure Routes:	inhalation, ingestion, skin	and/or eye contact		
Target Organs:	Eyes, skin, respiratory sys	tem		
Symptoms:	irritation eyes, skin, mucou	us membrane; pneum	onitis; eye, skin burns; temporary loss of hair	
Australia NICNAS:	not listed	Canada CEPA 19	99: DSL Yes	
Japan CSCL/PRTR:	not listed			
Japan PDSCL:	not listed	Japan ISHL:	listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)	
South Korea TCCA:	not listed			
Korea Exist.Chem.Inve	ntory: KE-31487			
LD50 _{orl rat} :	500 _{100%} mg/kg			
LD50 _{orl mus} :	40 mg/kg			

100 test strips

Chemical: cellulo	ose		CAS No.: 9004-34-6
TSCA Inventory:	listed Califo	ornia Proposition 65 List	: not listed
Exposure Routes:	inhalation, skin and/or eye of		
Target Organs:	Eyes, skin, respiratory syste		
Symptoms:	irritation eyes, skin, mucous		
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL yes
Japan CSCL/PRTR:	not listed		
Japan PDSCL:	not listed	Japan ISHL:	not listed
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory			
LD50 _{orl rat} :	>5000 mg/kg		
LC50 _{ihl rat} :	>5800 _{4h} mg/m³		
LD50 _{drm rbt} :	>2000 mg/kg		
		<i></i>	
	cals/mixture < 1%, no declara	ition necessary	CAS No.: -
Korea Exist.Chem.Inventory: listed			
Chemical: PVC f	oil (CAS 9002-86-2)		CAS No.: -

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances. 25 mL HCHO-1 CAS No.: 1310-73-2 Chemical: sodium hvdroxide solution Avoid contact of substance/mixture to environment. 35-189 mg/L LC50_{leuciscus idus/96h}: LC50fish/96h: 45.4 mg/L EC50_{daphnia/48h} : Water hazard class (DE): >100 mg/L WGK No.: 142 1 Storage class (VCI): 8 R 100 test strips CAS No.: 9004-34-6 Chemical. cellulose Water hazard class (DE): nwg Storage class (VCI): 11 Chemical: chemicals/mixture < 1%, no declaration necessary CAS No .: -Water hazard class (DE): 1 Storage class (VCI): 12-13

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	Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -
12.2	Persistence and de	egradability	
12.3	Bioaccumulative p not necessary	otential	
12.4	Mobility in soil not necessary		
12.5	Results of PBT and no data available	l vPvB assessment	
12.6	Other adverse effe no additional data availat		
SECT	ION 13: Disposal	considerations	
		ons for collection and disposal of hazardous waste and te disposal (waste code number 16 05 06).	d contact waste disposal company, where you will obtain

13.1 Waste treatment methods

Empty containers of corrosive reagents prior to disposal, rinse with water.

SECTION 14: Transport information

14.1. UN number: 14.3. Class:		UN proper shipping name: Chemical Kit Packing group: II
Road transport		
Classification code:	M11	Tunnel restriction code: E
Limited Quantity: Air transport	acc. ADR 3.3	3.1/251: see LQ in Alternative transport labelling
PAX:	960	max. weight PAX: 10 KG
CAO: Maritime transport	960	max. weight CAO: 10 KG
EmS:	F-A, S-P	Storage category: A

Alternative transport labelling follows:

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

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 II Road transport Classification code: C5 Limited Quantity: Е 1 L Tunnel restriction code: Excepted Quantity: E 2 Air transport PAX: 851 max. weight PAX: 1 L CAO: 855 max. weight CAO: 30 L Maritime transport F-A, S-B Storage category: B FmS[.]

14.5 **Environmental hazards**

not necessary

or

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



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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

15.2 Chemical safety assessment not necessary for these small amounts

SECTION 16: Other Information

16.1 List of R, H and P phrases

- 16.1.1 List of relevant R phrases
 - R35 Causes severe burns.

16.1.2 List of relevant H phrases

H290May be corrosive to metals.H314Causes severe skin burns and eye damage.

16.1.3	List of relevant P ph	rases
	DOOD 1	-

	undses
P260sh	Do not breathe dust/vapours.
P280sh	Wear protective gloves/eye protection.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/
P390	Absorb spillage to prevent material damage.

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.

16.4 Further Information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including

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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 September 2016 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

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

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



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