MACHEREY-NAGEL



Safety Data Sheet

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

REF: 91328	QUANTOFIX Formaldehyde	Page: 1/9
Printing date: 12.05.2021	Date of issue: 11.12.2020	

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

SLUI	ION 1. Identification of the	substance/inixture and of the company/undertakt
1.1	Product identifier REF Product name	91328 QUANTOFIX Formaldehyde
	REACH Registration number(s): A registration number for the substation the substance or its use is excluded	see SECTION 3.1/3.2 or ance(s) does not require registration or d from registration.
		2 x 25 mL HCHO-1 1 x 100 test strips
1.2	Relevant identified uses Product for analytical use. Exposure Scenario Classifica The exposure scenario is inte	e substance or mixture and uses advised against ation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 egrated into sections 1-16. lagnostic use (IVD) or Accessory for medical use
1.3	Details of the supplier of the sa Manufactured by: MACHEREY-NAGEL GmbH & Co. k Valencienner Str. 11, 52355 Düren, Tel.: +49 2421 969 0	 G
1.4	Emergency telephone number Outside Germany (DE): Call your reg DE: Gemeinsames Giftinformationsz	gional Poisons Information Service or call local Life Saving Service.
	You find our current versions of SDS (22 lang	puages) in Internet: http://www.mn-net.com/SDS
SECT	ION 2: Hazard identification	ı

Classification of the complete product 2.0

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

2.1 Classification of the substance or mixture

25 mL HCHO-1





MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: Tel.: +49 24 21 969-0 +49 24 21 969-199 Fax: Version: M V 4.12.0 E-mail: info@mn-net.com

Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

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	Signal word	DANGER	
	Hazard identification	Hazard classes/categories	
	H290 H314	Met. Corr. 1 Skin Corr. 1A	
	100 test strips		
	Signal word	Do not need labelling as hazardous -	

No hazard class

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).

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).

25 mL HCHO-1



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.

100 test strips

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. 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.

Fax:

+33 388 51 76 88

E-mail: sales-fr@mn-net.com

Information pertaining to particular risks to the environment

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

Fax:

Other hazards

+49 24 21 969-199



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 DE/international:
 CH:
 FR:

 Tel.:
 +49 24 21 969-0
 Tel.:
 +41 62 388 55 00
 Tel.:
 +33 388 68 22 68

+41 62 388 55 05

E-mail: sales-ch@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

Version: M V 4.12.0 E-mail: info@mn-net.com

Fax:



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SECT	ION 3: Composition/i	nformation on ingredients		
3.1	Substances or 3.2 Mixt	ures		
	Classification: Formula: Pseudonym: TSCA Inventory:	dium hydroxide solution H290, Met. Corr. 1, H314, Skin Corr. 1B NaOH•H2 O soda lye listed	CAS No.: 1310-73-2	
	REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	215-185-5 Indic WB4900000 KE-31487 20 - <35 %	e No.: 011-002-00-6	
	100 test strips			
	Chemical: ce Classification: Formula: TSCA Inventory: REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	: exempt, Annex IV 232-674-9 FJ5691460 KE-05339 1 - <10 %	CAS No.: 9004-34-6 ot required.	
	Chemical: ch Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	emicals/mixture < 1% No criteria for classification or naming of chemical no all listed, <1% listed 0.1 - <1 % The criteria for classification are not fulfilled.	CAS No.: - ot required.	
	Chemical: P\ Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	'C foil (CAS 9002-86-2) No criteria for classification or naming of chemical no listed 95 - <100 % The criteria for classification are not fulfilled.	CAS No.: - ot required.	

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.

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. ---



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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

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. ---

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 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.

- 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
- **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.

If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use

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 MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany

 DE/international:
 CH:
 FR:

 Tel.:
 +49 24 21 969-0
 Tel.:
 +41 62 388 55 00
 Tel.:
 +33 388 68 22 68

Uresion: M V 4.12.0 E-mail: info@mn-net.com

Fax: +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com



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SEC	FION 8: Exposure con	trols/personal protection	
8.1	Control parameters		
	25 mL HCHO-1 Chemical: sodium hyd DNEL: DNEL = Derived No-Eff	roxide solution [inh] 1 mg/m³ ect Level (for workers)	CAS No.: 1310-73-2
	TRGS 900 (DE):	2 mg/m ³ E/e respirable	
	Short-term exposure facto skin resorptive (H), res		atogenic (Z) not securely excluded / (Y) certainly excluded
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted a OSHA:	2 e mg/m ³ 2 mg/m ³ verage to a reference period of 8 hours, [STEL] Sho [TWA] 2 mg/m ³	rt-term exposure limit related to a 15-minute period
		[
	100 test strips Chemical: <i>cellulose</i> TRGS 900 (DE):	Staub 1.25 A / 4 E mg/m³ E/e respirable	CAS No.: 9004-34-6
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted a	3 a ppm TWA 10 (total) / 5 (resp) mg/m³ verage to a reference period of 8 hours, [STEL] Sho	t-term exposure limit related to a 15-minute period
	OSHA:	TWA 15 (total) / 5 (resp) mg/m³	
	Chemical: chemicals/n	nixture < 1%	CAS No.: -
	Chemical: PVC foil (C)	AS 9002-86-2)	CAS No.: -
8.2	Exposure controls The highest level of cleanlines	s must be maintained at the workplace.	
8.2.1	Respiratory protection No additional recommendation	ations.	
8.2.2		374 (permeation time >30 min - level 2), o es chemical resistant latex gloves with coo	consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansole EN 374-3 level 1.
8.2.3	Eye protection Yes, safety glasses accord	ling EN 166 with integrated side shields o	r wrap-around protection or face protection.
8.2.4	Skin protection Recommended to avoid cl	othing damage, and to avoid contaminatic	n 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.		
SEC	ΓΙΟΝ 9: Physical and ο	chemical properties	
9.1	Information on basic pl	hysical and chemical properties	6
	• 25 mL HCHO-1 Appearance: liquid	Colour: colourless	Odor: odorless

Appearance: liquid pH: Specific gravity: Solubility in water:	14 1,35 g/mL 0-100 %	Odor: odoriess
100 test strips Appearance: solid	Colour: colored	Odor: odorless

9.2 Other information

Relevant Properties of Substance Group

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+1 484 821 0984 +1 484 821 1272 E-mail: sales-us@mn-net.com



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SECTION 10: Stability and reactivity					
10.1	Reactivity no further data available.				
10.2	Chemical stability No known instability.				
10.3	3 Possibility of hazardous reactions Can react violently with organic material. No further 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.		e expiration		
SECT	ION 11: Toxicological inf	ormation			
11.1	Information on toxicologica Following information is valid for	Il effects pure substances. Quantitative data on the toxicity of this product are not available.			

25 mL HCHO-1

Chemical:	sodium hydroxide solution	CAS No.: 1310-73-2
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, ingestion	n, skin and/or eye contact
Target Organs:	Eyes, skin, respirate	bry system
Symptoms:	irritation eyes, skin,	mucous membrane; pneumonitis; eye, skin burns; temporary loss of hair
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japan PD	DSCL: not listed
Japan ISHL:	listed ≥1,0%/≥1,0%,	, Article 57-2 (SDS required)
South Korea TCCA:	not listed	
Korea Exist.Chem.Inve	entory: KE-31487	
LD50 _{orl rat} :	[40%] 1250 / [<25%] >2000 mg/kg
LD50drm rbt :	not applicable	
LD50 _{orl mus} :	40 mg/kg	

100 test strips

Chemical:	cellulos	se		CAS No.: 9004-34-6
TSCA Inventory:	00110100	listed	California Proposition 65 List: no	
Exposure Routes:		inhalation, skin and/or		
Target Organs:		Eyes, skin, respiratory	/ system	
Symptoms:		irritation eyes, skin, m	lucous membrane	
Australia NICNAS:		not listed	Canada CEPA 1999: DS	SL yes
Japan CSCL/PRTR:		not listed, Japan PDS	CL: not listed	
Japan ISHL:		not listed		
South Korea TCCA:		not listed		
Korea Exist.Chem.Inv	ventory:			
LD50 _{orl rat} :		>5000 mg/kg		
LC50 _{ihl rat} :		>5800 _{4h} mg/m ³		
LD50 _{drm rbt} :		>2000 mg/kg		
Chemical:	chomic	als/mixture < 1%		CAS No.: -
TSCA Inventory:	Chennic	all listed, <1%		CAS No
Korea Exist.Chem.Inv	ventorv.	,		
	i ontor y.	liotou		
Chemical:	PVC fo	il (CAS 9002-86-2)		CAS No.: -
TSCA Inventory:		listed		



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SECTION 12: Eco	logical informa	tion	
12.1 Toxicity Following infor	mation is valid for pure	substances.	
25 mL HCF Chemi Avoid o LC50le LC50fit EC50d Water	IO-1 cal: sodium hy contact of substance/mix uciscus idus/96h :	/droxide solution	CAS No.: 1310-73-2
		nwg 11	CAS No.: 9004-34-6
	cal: chemicals hazard class (DE): e class (VCI):	s/mixture < 1% 1 12-13	CAS No.: -
Chemi	cal: PVC foil (CAS 9002-86-2)	CAS No.: -
12.2 Persistence not necessary	and degradability		
12.3 Bioaccumul not necessary	ative potential		
12.4 Mobility in s	oil		
12.5 Results of P no data availabl	BT and vPvB asse	ssment	
12.6 Other adver			

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: Road transport	3316 9		UN proper shipping Packing group: II		Chemical Kit		
Classification code:	M11		Tunnel restriction co		E		
Limited Quantity: Air transport	acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation						
PAX:	960		max. weight PAX:	10 KG			
CAO:	960		max. weight CAO:	10 KG			
Maritime transport			-				
EmS:	F-A, S	S-P	Storage category:	А			
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			name: C	orrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide solution)		
14.3 Class:	8	14.4	Packing group: II				
<i>Road transport</i> Classification code: Limited Quantity:	C5 1 L		Tunnel restriction co	de:	E		



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Excepted Quantity: Air transport	E 2		
PAX:	851	max. weight PAX:	1 L
CAO:	855	max. weight CAO:	30 L
Maritime transport			
EmS:	F-A, S-B	Storage category:	В

14.5 **Environmental hazards**

- none
- 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 May be corrosive to metals. H290 H314 Causes severe skin burns and eye damage. 1612 List of relevant P phrases Do not breathe dust/vapours. P260sh 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. Immediately call a POISON CENTER/doctor. P310 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 for DE §§ 11-13 MuSchG 2017)! 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.

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EREY-NAGEL	MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany								
MN	DE/ir	DE/international:		CH:		FR:		US:	
	Tel.:	+49 24 21 969-0	Tel.:	+41 62 388 55 00	Tel.:	+33 388 68 22 68	Tel.:	+1 484 821 0984	
SO 9001 ERTIFIED	Fax:	+49 24 21 969-199	Fax:	+41 62 388 55 05	Fax:	+33 388 51 76 88	Fax:	+1 484 821 1272	
ion: MV/4	E-mai	il: info@mn-net.com	E-ma	il: sales-ch@mn-net.com	E-mai	l: sales-fr@mn-net.com	E-mai	l: sales-us@mn-net.com	



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Sources of key data 16.5

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 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 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

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



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