MACHEREY-NAGE



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 91325 QUANTOFIX Molybdate / 100

2 x 20 g Molybdenum-1 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

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

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

2 Hazard Identification

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

Directive 1999/45/EC Symbols R CLP Directive 1272/2008/EC GHS pictograms



GHS07	

Signal word	WARNING
Hazard identification	Hazard classes/categories
H315	Skin Irritation cat. 2
H319	Eye Irritation cat. 2
H412	Hazardous to the aquatic environment - chronic cat. 3

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

Information pertaining to particular Risks to the Environment

Other Hazards

2.3 Other hazards: Description of the components

20 g Molybdenum-1



Version: 1.0

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	Directive 1999/45/EC		
	Symbols	- do not need labelling as hazardous	
	CLP Directive 1272/2008/EC		
	GHS pictograms	•	
		GHS07	
	Signal word	WARNING	
	Hazard identification	Hazard classes/categories	
	H315	Skin Irritation cat. 2	
	H319 H412	Eye Irritation cat. 2 Hazardous to the aquatic environment - chronic cat.	3
	100 toot strips		
	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 Co	omposition/Information or	n Ingredients	
3.1	Substances or 3.2 Mixtures		
	Concentration: 50 · Formula: H ₃	onic acid (sulphamic acid) - 100 % NO ₃ S 2110486523 28 xxxx	CAS No.: 5329-14-6

Chemical: aminos Concentration: Formula: REACH Reg. No.:	sulphonic acid (sulphamic acid) 50 - 100 % H ₃ NO ₃ S 01-2119488633-28-xxxx		CAS No.: 5329-14-6
EC No.: RTECS: TSCA Inventory:	226-218-8 WO5950000 listed	Indice No.: MFCD:	016-026-00-0 0005994x
acc. 1999/45/EC:	R 36/38-52/53	acc. CLP (GHS):	H315, H319, H412
100 test strips			
Chemical: <i>cellulo</i> . Concentration: Formula: REACH Reg. No.: EC No.: RTECS: TSCA Inventory:	se 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: chemic Concentration:	cals/mixture < 1%, no declaration neo 0.1 - 1 %	cessary	CAS No.: -
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
Chemical: PVC fo	oil (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



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					Page: 3
4	First Aid Measures				
4.1	Description of first aid r	neasures			
	•	ger zone to fresh air immed	diately. Ensure quiet, warmth, an	d provide resuscitation if necessary. I	lf
l.1.1	After SKIN Contact Remove dust with wetted ti running water. (If possible)		ed clothing. Rinse the affected sk	in or mucous membrane thoroughly u	under
1.1.2	After EYE Contact Rub dust with teardrops fro with eye washing bottle, ey			er running water with the eyelid wide o	open
.1.3	After INHALATION of Vap After inhalation of foam or		nhaled. Keep airways free. After	inhalation of dust fresh air should be	inhale
.1.4	After ORAL Intake After oral intake lots of wate	er should be drunk after it h	as been indested		
1.2		liate medical attentio	on and special treatment	needed	
5	Firefighting Measures				
5.1			, if applicable, a fire blanket musi DRY POWDER, CARBON DIOXI	be available in a prominent location DE can be used.	in the
5.2	Special hazards arising Formation of hazardous and car				
5.3	Advice for firefighters No, for listed product. Product p	ackage burns like paper or	plastic.		
5.4	Additional Information				
6	Accidental Release Me	asures			
6.1	Personal precautions, p Regular staff training is necessa	• •	and emergency procedu	ires	
6.2	Methods and material for Bind any escaping liquid with in-		cleaning up amounts of leaked liquid and flu	sh with water into drains.	
7	Handling and Storage				
7.1	Precautions for safe has Handling in accordance with the		s with the product.		
7.2	Conditions for safe stor The original product package of Storage class (German chemica	MACHEREY-NAGEL allow	vs a safe storage.		
7.2.1	Requirements for Stock F Keep original product pack		andling and storage.		
3	Exposure Controls/Per	sonal Protection			
8.1	Control parameters				
	20 g Molybdenum-1 Chemical: <i>aminosulpho</i> TSCA Inventory:	nic acid (sulphamic acid) listed		CAS No.: 5329-14-6	
	100 test strips Chemical: <i>cellulose</i> TRGS 900 (DE):	Staub 4 E mg/m³ E/e respirable		CAS No.: 9004-34-6	
	SUVA(CH) MAK value:	3 a ppm			
				www.mn-ne	et.con
		KG · Neumann-Neander-St			



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	Australia NICNAS: Japan CSCL/PRTR:	not listed not listed	Canada CEPA	999: DSL yes	
	Japan PDSCL: South Korea TCCA:	not listed not listed	Japan ISHL:	not listed	
	TSCA Inventory: NIOSH: OSHA:	listed not listed not listed	California Propo	sition 65 List: not listed	
	Chemical: chemicals	s/mixture < 1%, no declara	tion necessary	CAS No.: -	
	Chemical: PVC foil ('CAS 9002-86-2)		CAS No.: -	
3.2	Exposure controls	ess must be maintained at	the workplace.		
3.2.1	Respiratory Protection Only if additional recom	n mendations in test instruct	ion or packing insert.		
3.2.2		N 374 (permeation time > mes chemical resistant lat		of PVC, natural latex, Neopren, or Nitril (f.e 74-3 level 1.	ex. from Ansel
8.2.3	Eye Protection Yes, safety glasses acc	ording EN 166 with integra	ated side shields or wrap-	around protection.	
3.2.4	Skin Protection Not necessary.				
.2.5			e of food in work areas ar	d at outdoor workplaces is prohibited. Avo	id contact
				has been spilled, and soak it in water. Wa then apply protective skin cream.	ish hands
Ð		d water when stopping wo			ish hands
	thoroughly with soap an	d water when stopping wo	rk and before eating, and		ish hands
	thoroughly with soap an Physical and Chemic	d water when stopping wo	rk and before eating, and	then apply protective skin cream.	ish hands
	thoroughly with soap an Physical and Chemic Information on basic 20 g Molybdenum-1	d water when stopping wo cal Properties physical and chemi	rk and before eating, and	then apply protective skin cream.	ish hands
0.1	thoroughly with soap an Physical and Chemic Information on basic 20 g Molybdenum-1 Color: colourless 100 test strips	d water when stopping wo cal Properties physical and chemi Odor: odorless	i cal properties Appearance: so	then apply protective skin cream.	ish hands
9.1 9.2	thoroughly with soap an Physical and Chemic Information on basic 20 g Molybdenum-1 Color: colourless 100 test strips Color: colored	d water when stopping wo cal Properties physical and chemi Odor: odorless Odor: odorless	i cal properties Appearance: so	then apply protective skin cream.	ish hands
9.1 9.2	thoroughly with soap an Physical and Chemic Information on basic 20 g Molybdenum-1 Color: colourless 100 test strips Color: colored Other information	d water when stopping wo cal Properties physical and chemi Odor: odorless Odor: odorless Data 1 2 2.12 sol. g/cm ³ 0-17 % instable 205 °C 0°C): 0.0078 hPa	rk and before eating, and i cal properties Appearance: so Appearance: so	then apply protective skin cream.	ish hands
).1).2	thoroughly with soap an Physical and Chemic Information on basic 20 g Molybdenum-1 Color: colourless 100 test strips Color: colored Other information Safety relevant Basis I 20 g Molybdenum- pH: Specific gravity: Solubility in water: Melting point: Vapour pressure (2	d water when stopping wo cal Properties physical and chemi Odor: odorless Odor: odorless Data 1 2 2.12 sol. g/cm ³ 0-17 % instable 205 °C 0°C): 0.0078 hPa	rk and before eating, and i cal properties Appearance: so Appearance: so	then apply protective skin cream.	ish hands
9.1 9.2 9.2.1	thoroughly with soap an Physical and Chemic Information on basic 20 g Molybdenum-1 Color: colourless 100 test strips Color: colored Other information Safety relevant Basis I 20 g Molybdenum-pH: Specific gravity: Solubility in water: Melting point: Vapour pressure (2 Volatiles by volume	d water when stopping wo cal Properties physical and chemi Odor: odorless Odor: odorless Data 1 < 2 2.12 sol. g/cm³ 0-17 % instable 205 °C 0°C): 0.0078 hPa e: 0.031 mg/m³	rk and before eating, and i cal properties Appearance: so Appearance: so	then apply protective skin cream.	ish hands
).1).2).2.1	thoroughly with soap an Physical and Chemic Information on basic 20 g Molybdenum-1 Color: colourless 100 test strips Color: colored Other information Safety relevant Basis I 20 g Molybdenum- pH: Specific gravity: Solubility in water: Melting point: Vapour pressure (2 Volatiles by volume 100 test strips	d water when stopping wo cal Properties physical and chemi Odor: odorless Odor: odorless Data 1 < 2 2.12 sol. g/cm³ 0-17 % instable 205 °C 0°C): 0.0078 hPa e: 0.031 mg/m³	rk and before eating, and i cal properties Appearance: so Appearance: so	then apply protective skin cream.	ish hands
9.1 9.2 9.2.1 9.2.2 9.3	thoroughly with soap an Physical and Chemic Information on basic 20 g Molybdenum-1 Color: colourless 100 test strips Color: colored Other information Safety relevant Basis I 20 g Molybdenum- pH: Specific gravity: Solubility in water: Melting point: Vapour pressure (2 Volatiles by volume 100 test strips Relevant Properties of 	d water when stopping wo cal Properties physical and chemi Odor: odorless Odor: odorless Odor: odorless Data 1 < 2 2.12 sol. g/cm ³ 0-17 % instable 205 °C 0.0078 hPa 9.0078 hPa 9.0078 hPa 9.0031 mg/m ³	rk and before eating, and i cal properties Appearance: so Appearance: so	then apply protective skin cream.	ish hands

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10.2	Incompatible ma	aterials	
	•	contact with concentrated acids and oxidizing agents.	
10.3	Hazardous deco	emposition products	
		e all parts/all reagents are safety and separated stored. Decom	positions are not observed during the expiration
11 T	oxicological in	formation	
	11.1 Information on Following information	toxicological effects on is valid for pure substances. Quantitative data on the toxic	ity of this product are not available.
	20 g Molybdenu	m-1	
	Chemical: LD50 _{orl rat} : LD50 _{orl gpg} : LD50 _{orl mus} :	<i>aminosulphonic acid (sulphamic acid)</i> 3160 mg/kg 1050 mg/kg 1312 mg/kg	CAS No.: 5329-14-6
	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.: -
12 E	Ecological infor	mation	
12.1	Toxicity		
	Following information	on is valid for pure substances.	
	20 g Molybdenu	m-1	

20 g	Molybdenum-1 Chemical: WGK (DE): Storage class (VCI):	aminosulphonic acid (sulphamic acid) 1 WGK No.: 1266 8 B	CAS No.: 5329-14-6
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



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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**.

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.**

20 g Molybdenum-1

Directive 1999/45/EC Symbols: --

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

CLP Directive 1272/2008/EC GHS pictograms:



Signal word: WARNING

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

R36/38 Irritating to eyes and skin. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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4 **^** 4 .

16.1.2			Page: 7/7
	List of relevant I H315 H319 H412	H phrases Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.	
16.2	Training Advice Regular safety training		
16.3	Only for professional	Restriction on Use user. e of this product or test kit has a moderate hazardous potential.	
16.4	revision time. This doo person using this proc appropriateness for a MACHEREY-NAGEL without limitation any product to which the in	GmbH & Co. KG provides the information contained herein in good faith being up-to-d cument is intended only as a guide to the appropriate precautionary handling of the ma duct. Individuals receiving the information must exercise their independent judgement i	aterial by a properly trained in determining its ed or implied, including nation set forth herein or the insible for damages resulting
16.5	Sources of Key Data Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4 th 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 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances		

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

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

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