MACHEREY-NAGEL



Safety Data Sheet

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

REF: 925015	NANOCONTROL Multistandard Metals 1	Page: 1/7
Printing date: 02.06.2020	Date of issue: 18.06.2018	

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

	Product identifier	925015
	Product name	NANOCONTROL Multistandard Metals 1
	REACH Registration number(s): A registration number for the sub the substance or its use is exclue	see SECTION 3.1/3.2 or stance(s) does not exist because the annual tonnage does not require registration or ded from registration.
		2 x 30 mL NANOCONTROL Metals 1 1 x 15 mL NANOCONTROL 100+ Metals 1
1.2	Relevant identified uses Product for analytical use. Exposure Scenario Classif	ne substance or mixture and uses advised against fication according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 ntegrated into sections 1-16.
1.3	Details of the supplier of the Manufactured by: MACHEREY-NAGEL GmbH & Co Neumann-Neander-Str. 6-8, 5235 Tel.: +49 2421 969 0	. KG
1.4	Emergency telephone number Information not necessary.	er
	You find our current versions of SDS (22 la	anguages) in Internet: http://www.mn-net.com/SDS
050		
SEC ⁻	You find our current versions of SDS (22 la TION 2: Hazard identificatio	
-		on
2.0	TION 2: Hazard identification	on e product
2.0	TION 2: Hazard identification Classification of the complet	on e product ce or mixture
SEC ⁻ 2.0 2.1	TION 2: Hazard identification Classification of the complet Classification of the substan	on e product ce or mixture
2.0	TION 2: Hazard identification Classification of the complet Classification of the substan 30 mL NANOCONTROL Metals 1	on e product ce or mixture
2.0	TION 2: Hazard identification Classification of the complete Classification of the substant 30 mL NANOCONTROL Metals of Signal word No hazard class	Don e product ce or mixture 1 Do not need labelling as hazardous -
2.0	TION 2: Hazard identification Classification of the complete Classification of the substan 30 mL NANOCONTROL Metals of Signal word	on e product ce or mixture 1 Do not need labelling as hazardous -
2.0	TION 2: Hazard identification Classification of the complete Classification of the substant 30 mL NANOCONTROL Metals of Signal word No hazard class	on e product ce or mixture 1 Do not need labelling as hazardous -
2.0	TION 2: Hazard identification Classification of the complete Classification of the substan 30 mL NANOCONTROL Metals 1 Signal word No hazard class 15 mL NANOCONTROL 100+ Metals	on e product ce or mixture 1 Do not need labelling as hazardous -
2.0	TION 2: Hazard identification Classification of the complete Classification of the substan 30 mL NANOCONTROL Metals 1 Signal word No hazard class 15 mL NANOCONTROL 100+ Metals Signal word	on e product ce or mixture 1 Do not need labelling as hazardous -

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REF: 925015 NANOCONTROL Multistandard Metals 1 Page: 2/7 Printing date: 02.06.2020 Date of issue: 18.06.2018

15 mL NANOCONTROL 100+ Metals 1

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. ---

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

30 mL NANOCONTROL Metals 1

				0 4 0 NL 7007 07 0
	Chemical: nitric			CAS No.: 7697-37-2
	Classification: Formula:	No criteria for classification or namir HNO ₃ •H ₂ O	g of chemical not required.	
	Pseudonym:	Aqua fortis, Engravers acid,	hydrogen nitrate	
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119487297-23-xxxx		
	EC No.:	231-714-2	Indice No.:	007-004-00-1
	RTECS:	QU5900000/QU5775000		
	KE No.:	KE-25911, >10% Toxic 97-1-	246 Acc Precaution Chem	
	Concentration:	< 0.10 %		
	acc. CLP (GHS):	The criteria for classification are not	fulfilled.	
	Chemical: test c	hemical(s) (ppm)		CAS No.: -
	Classification:	No criteria for classification or namir	g of chemical not required.	
	TSCA Inventory:	all <0.1%		
	Concentration:	0.01 - <0.1 %		
	acc. CLP (GHS):	The criteria for classification are not	fulfilled.	
15 ml N	NANOCONTROL 100)+ Metals 1		
15 mL N	NANOCONTROL 100			CAS No · 7697-37-2
15 mL N	Chemical: nitric	acid	a of chamical not required	CAS No.: 7697-37-2
15 mL N	Chemical: <i>nitric</i> Classification: Formula:	acid No criteria for classification or namir HNO ₃ •H ₂ O	-	CAS No.: 7697-37-2
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I	-	CAS No.: 7697-37-2
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, listed	-	CAS No.: 7697-37-2
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, listed 01-2119487297-23-xxxx	hydrogen nitrate	
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, listed 01-2119487297-23-xxxx 231-714-2	-	CAS No.: 7697-37-2 007-004-00-1
15 mL M	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I listed 01-2119487297-23-xxxx 231-714-2 QU5900000/QU5775000	hydrogen nitrate	
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I listed 01-2119487297-23-xxxx 231-714-2 QU5900000/QU5775000 KE-25911, >10% Toxic 97-1-	hydrogen nitrate	
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I listed 01-2119487297-23-xxxx 231-714-2 QU5900000/QU5775000	hydrogen nitrate	
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I listed 01-2119487297-23-xxxx 231-714-2 QU5900000/QU5775000 KE-25911, >10% Toxic 97-1-	hydrogen nitrate Indice No.: 246, Acc. Precaution Chem.	
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>test c</i>	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I listed 01-2119487297-23-xxxx 231-714-2 QU5900000/QU5775000 KE-25911, >10% Toxic 97-1 < 0.10 %	hydrogen nitrate Indice No.: 246, Acc. Precaution Chem.	
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>test c</i> Classification:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I listed 01-2119487297-23-xxxx 231-714-2 QU5900000/QU5775000 KE-25911, >10% Toxic 97-1- < 0.10 % The criteria for classification are not chemical(s) (ppm) No criteria for classification or namir	hydrogen nitrate Indice No.: 246, Acc. Precaution Chem. fulfilled.	007-004-00-1
15 mL N	Chemical: nitric Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: test c Classification: TSCA Inventory:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I listed 01-2119487297-23-xxxx 231-714-2 QU5900000/QU5775000 KE-25911, >10% Toxic 97-1- < 0.10 % The criteria for classification are not chemical(s) (ppm) No criteria for classification or namir all <0.1%	hydrogen nitrate Indice No.: 246, Acc. Precaution Chem. fulfilled.	007-004-00-1
15 mL N	Chemical: <i>nitric</i> Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>test c</i> Classification:	acid No criteria for classification or namir HNO ₃ •H ₂ O Aqua fortis, Engravers acid, I listed 01-2119487297-23-xxxx 231-714-2 QU5900000/QU5775000 KE-25911, >10% Toxic 97-1- < 0.10 % The criteria for classification are not chemical(s) (ppm) No criteria for classification or namir	hydrogen nitrate Indice No.: 246, Acc. Precaution Chem. fulfilled.	007-004-00-1

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

- - -

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REF: 925015	NANOCONTROL Multistandard Metals 1	Page: 3/7
Printing date: 02.06.2020	Date of issue: 18.06.2018	

SECTION 4: First aid measures

4.1	Description of first aid measures Place insured person out of danger zone to fresh air immediately.
4.1.1	After SKIN Contact Not necessary.
4.1.2	After EYE Contact Not necessary.
4.1.3	After INHALATION of vapours Not necessary
4.1.4	After ORAL Intake Not necessary
4.2	Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---

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 None.

5.3 Advice for firefighters

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

5.4 Additional information

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Not necessary.
- 6.2 **Environmental precautions** not necessary
- 6.3 Methods and material for containment and cleaning up Clean working area with water. Flush used 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.

- 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.

7.3 Specific end use(s)

Product for analytical use.



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

	25015 date: 02.06.2020	NANOCONTROL Date of issue: 18.	Multistandard Metals 1 06.2018	Page: 4/7
		e controls/personal protection	on	
8.1	Control paramet	ers		
	DNEL: DNEL = Der PNEC(fresh water) PNEC = Pre EU value: TRGS 900 (DE): Short-term expos	ic acid [inh] (1.3) mg/m ³ ved No-Effect Level (for workers) no hazard identified dicted No Effected Concentration 1 ppm / 2.6 mg/m ³ 1 ppm / 2.6 mg/m ³ E/e respirable ure factor: - ive (H), respiratory sensitizable (Sa), skin sensitizable (S	CAS No.: 7697-37-	
	OSHA: mg/m³	weighted average to a reference period of 8 hours, [STE List of highly hazardous chemica	L] Short-term exposure limit related to a 15-minute period Is, toxics and reactives Yes (TQ = 500 lbs) n/a CAS No.: -	
	15 mL NANOCO Chemical: <i>niti</i> DNEL: DNEL = Der	t chemical(s) (ppm) NTROL 100+ Metals 1 <i>ic acid</i> [inh] (1.3) mg/m ³ ved No-Effect Level (for workers) no hazard identified dicted No Effected Concentration	CAS No.: 7697-37-:	2
	EU value: TRGS 900 (DE): Short-term expos skin resorpt SUVA(CH) MAK NIOSH: NIOSH S	1 ppm / 2.6 mg/m ³ 1 ppm / 2,6 mg/m ³ E/e respirable ure factor: - ive (H), respiratory sensitizable (Sa), skin sensitizable (S value: 2 ppm / 5 mg/m ³ [TWA] 2 ppm / 5 mg/m ³ IFEL: 4 ppm / 10 mg/m ³ weighted average to a reference period of 8 hours, [STE	5h), teratogenic (Z) not securely excluded / (Y) certainly ex L] Short-term exposure limit related to a 15-minute period Is, toxics and reactives Yes (TQ = 500 lbs) n/a	
8.2	Chemical: tes	t chemical(s) (ppm)	CAS No.: -	
8.2.1	•	ventilation and extraction system in the room,	floor resistant to chemicals with floor drainage	and washing facilities.

8.2.2 Hand protection Not necessary. 8.2.3 Eye protection Not necessary. 8.2.4 Skin protection Not necessary. 8.2.5

Personal hygiene Information not necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

30 mL NANOCONTROL Metals 1

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REF: 925015		NANOCONTROL Multistandard Metals 1		Page: 5/	
Printing	date: 02.06.2020		Date of issue: 18.06.2018		
	Appearance: liquid pH:	Colou 2-3	ır: colourless	Odor: odorless	
	Specific gravity:	1,0 g/	′cm³		
	15 mL NANOCONT Appearance: liquid pH:		ır: slightly yellow	Odor: odorless	
9.2	Other information Data for the other parame Relevant Properties of S		re not available, becau	se no registration and no chemical safety	report is required.
SECT	· ION 10: Stability a	and reactivity			
10.1	Reactivity	and reactivity			
10.2	None Chemical stability				
10.3	No known instability. Possibility of haza	rdous reactions			
	None.				
10.4	Conditions to avoid Not known. Observe labe		re		
10.5	Incompatible mate Not known.	rials			
10.6	Hazardous decom	•			
	In the original package al period under recommend	l parts/all reagents are led conditions.	e safety and separated	stored. Decompositions are not observed	d during the expiration
SECT	ION 11: Toxicolog	gical informati	on		
11.1	Information on tox	•			
			tances. Quantitative d	ata on the toxicity of this product are not	available.
	30 mL NANOCONT Chemical:	nitric acid		CAS No.: 7697-3	37-2
	TSCA Inventory: Exposure Routes: Target Organs:	listed inhalation, in Eyes, skin, re	gestion, skin and/or ey espiratory system, teet	oposition 65 List: not listed e contact h	
	Symptoms: erosion Australia NICNAS:	irritation eyes		rane; delayed pulmonary edema, pneumo da CEPA 1999: DSL Yes	onitis, bronchitis; dental
	Japan CSCL/PRTR: Japan ISHL: South Korea TCCA:	listed ≥1,0%/ Accident Pre	pan PDSCL: Deleterio ≥1,0%, Article 57-2 (S caution Chemical Yes	DS required)	
	Korea Exist.Chem.In LC_Low _{orl hmn} : LC50 _{ihl rat} :	ventory: KE-25911, > [NOAEC] 150 [4h] 2.65 mg	00 mg/kg	cc. riecaulion Chem.	
	TRGS 905 (DE):	R _F D			
	Chemical: TSCA Inventory:	test chemical(s) (ppn all <0.1%	n)	CAS No.: -	
	15 mL NANOCONT Chemical:	ROL 100+ Metals	5 1	CAS No.: 7697-3	37-2

Chemical:	nitric acid	CAS No.: 7697-37-2
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation,	ingestion, skin and/or eye contact
Target Organs:	Eyes, skin,	respiratory system, teeth
Symptoms:	irritation ey	es, skin, mucous membrane; delayed pulmonary edema, pneumonitis, bronchitis; dental
0 0		

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REF: 9		NANOCONTROL Multistan	dard Metals 1 Page: 6/
Printing	g date: 02.06.2020	Date of issue: 18.06.2018	
	erosion Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Invento LC_Loworl hmn : LC50ihi rat :	not listed Canada CEP. not listed, Japan PDSCL: Deleterious Subs listed ≥1,0%/≥1,0%, Article 57-2 (SDS requ Accident Precaution Chemical Yes ry: KE-25911, >10% Toxic 97-1-246, Acc. Pred [NOAEC] 1500 mg/kg [4h] 2.65 mg/L	iired)
	TRGS 905 (DE):	R _F D	
	Chemical: test TSCA Inventory:	chemical(s) (ppm) all <0.1%	CAS No.: -
	TION 12: Ecological in	formation	
2.1	Toxicity Following information is vali	d for pure substances.	
	PNEC(fresh water) : PNEC = Predicted No Effe LC50daphnia magna/48h LC50fish/96h : Water hazard class (I Storage class (VCI): Chemical: Storage class (VCI): 15 mL NANOCONTROL Chemical:	nitric acid no hazard identified ted Concentration 180 mg/L [4d] 12 g/L DE): 1 WGK No.: 0414 8 B test chemical(s) (ppm) 12 100+ Metals 1 nitric acid	CAS No.: 7697-37-2 CAS No.: - CAS No.: 7697-37-2
	PNEC(fresh water) : PNEC = Predicted No Effe LC50daphnia magna/48h LC50fish/96h : Water hazard class (I Storage class (VCI): Chemical: Storage class (VCI):	: 180 mg/L [4d] 12 g/L	CAS No.: -
2.2	Persistence and degra	dability	
2.3	Bioaccumulative poten not necessary	tial	
2.4	Mobility in soil not necessary		
2.5	Results of PBT and vPv no data available	vB assessment	
2.6	Other adverse effects		



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REF: 925015 NANOCONTROL Multistandard Metals 1 Page: 7/7 Printing date: 02.06.2020 Date of issue: 18.06.2018

SECTION 13: Disposal considerations

Not necessary.

13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

SECTION 14: Transport information

14.1 - 14.4 Not necessary

- 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 MN Leaflet/User manual, also see www.mn-net.com Look for your country-specific regulations.
- 15.2 Chemical safety assessment

SECTION 16: Other information

16.1 List of H and P phrases

- 16.1.1 List of relevant H phrases
- 16.1.2 List of relevant P phrases
- 16.2 Training advice
 - Regular safety training.
- 16.3 Recommended restriction on use None

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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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 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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