MACHEREY-NAGEI



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

REF: 740841.100	Binding Buffer FOB (100 mL)	Page: 1/8
Printing date: 12.05.2021	Date of issue: 17.02.2021	

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

1.1 **Product identifier**

REF Product name

740841.100 Binding Buffer FOB (100 mL)

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.

1 x 100 mL FOB

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. Uses advised against not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, GERMANY Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (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

You find our current versions of SDS (22 languages) in Internet:

http://www.mn-net.com/SDS

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

100 mL FOB

	GHS02 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
H225 H319	Flam. Liq. 2 Eye Irrit. 2

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).

Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

100 mL FOB



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Version: M V 4.12.0 E-mail: info@mn-net.com 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



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

REF: 740841.100 Printing date: 12.05.2021 Binding Buffer FOB (100 mL) Date of issue: 17.02.2021

Page: 2/8



Signal word: DANGER

H412 Harmful to aquatic life with long lasting effects.

2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. For guanidine thiocyanate CAS 593-84-0: The properties H314, H332 "Causes severe skin burns and eye damage. Harmful if inhaled." are not relevant, because the mixture solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). ---

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment. PBT: not applicable vPvB: not applicable Other hazards

SECTION 3: Composition/information on ingredients

Substances or 3.2 Mixtures 3.1

100 mL FOB

nL	FOB			
	Chemical: guanid	linium thiocyanate		CAS No.: 593-84-0
	Classification:	H302, Acute Tox. 4 oral, H312, Acut	te Tox. 4 derm., H314,	Skin Corr. 1B, H332, Acute Tox. 4 inh.,
	H412, Aquatic Chron	ic 3		
	Formula:	C ₂ H ₆ N ₄ S		
	Pseudonym:	guanidine rhodanide		
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2120735072-65-0001		
	EC No.:	209-812-1	Indice No.:	615-004-00-3
	RTECS:	XL1225000	MFCD:	00013027
	KE No.:	not listed		
	Concentration:	10 - <15 %		
	acc. CLP (GHS):	The criteria for classification are not fulfilled.		
	Chemical: 2-propa	anol		CAS No.: 67-63-0
	Classification:	H225, Flam. Liq. 2, H319, Eye Irrit. 2	2. H336. STOT SE 3	
	Formula:	C ₃ H ₈ O	,, .	
	Pseudonym:	isopropanol, IPA, propan-2-ol		
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119457558-25-XXXX		
	EC No.:	200-661-7	Indice No.:	603-117-00-0
	RTECS:	NT8050000	MFCD:	00011674
	KE No.:	KE-29363		
	Concentration:	50 - <65 %		
	acc. CLP (GHS):	H225, Flam. Liq. 2, H319, Eye Irrit. 2	2, H336, STOT SE 3	



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany CH: FR: US: Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.:

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

Tel.:

Fax:

DE/international:

+49 24 21 969-0

+49 24 21 969-199

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

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



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

REF: 740841.100		Binding Buffer F	OB (100 mL)		Page: 3/8
Printing date: 12.05.2	021 Date of issue: 17.02.2021			_	
	Chemical: <i>Tritol</i> Classification: Formula: Pseudonym: TSCA Inventory:	n® <i>X-100</i> H302, Acute Tox. 4 oral, H315 C ₃₃ H ₆₀ O _{10,5} octoxynol-9 listed	5, Skin Irrit. 2, H318, E	CAS No.: 9002-93-1 Eye Dam. 1, H410, Aquatic Chronic 1	
	SVHC listed: RTECS: KE No.: Concentration: acc. CLP (GHS):	listed MD0907700 KE-33568 0.25 - <2.5 % H412, Aquatic Chronic 3	MFCD:	00132505	
	Classification: TSCA Inventory: KE No.: Concentration:	hicals/mixture < 1% No criteria for classification or naming all listed, <1% listed 0.1 - <1%	g of chemical not required.	CAS No.: -	
	acc. CLP (GHS):	The criteria for classification are not f	ulfilled.		

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.

4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap

4.1.2 After EYE Contact

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. ---

4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

- 4.2 Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed 4.3

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 DANGER: Highly flammable (GHS regulation). Forms explosive vapour-air mixtures. 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.

5.4 Additional information



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 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com 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



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

Printin	'40841.100 Binding Buffer FOB (100 mL) g date: 12.05.2021 Date of issue: 17.02.2021	Page: 4/8
	FION 6: Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Regular staff training is necessary.	
6.2	Environmental precautions not necessary, contains only small amounts of these substances	
6.3	Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.	
6.4	Reference to other sections	
SEC	FION 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): 3 Water hazard class (DE): 3	
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.	
	• • • • • • • • • • • • • • • • • • • •	
	Product for analytical use.	
SEC [.]	Product for analytical use. FION 8: Exposure controls/personal protection Control parameters 100 mL FOB Chemical: guanidinium thiocyanate DNEL: [inh] 1092 µg/m³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 42.4 µg/L	
SEC [.]	Product for analytical use. FION 8: Exposure controls/personal protection Control parameters 100 mL FOB Chemical: guanidinium thiocyanate DNEL: [inh] 1092 µg/m³ DNEL = Derived No-Effect Level (for workers)	
SEC [.]	Product for analytical use. Figure controls/personal protection Control parameters 100 mL FOB Chemical: guanidinium thiocyanate CAS No.: 593-84-0 DNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 42.4 µg/L PNEC = Predicted No Effected Concentration NIOSH: not listed [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: 2-propanol CAS No.: 67-63-0 DNEL: DNEL = Derived No-Effect Level (for workers)	
SEC	Product for analytical use. FION 8: Exposure controls/personal protection Control parameters 100 mL FOB Chemical: guanidinium thiocyanate CAS No.: 593-84-0 DNEL: [inh] 1092 µg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 42.4 µg/L PNEC = Predicted No Effected Concentration NIOSH: not listed [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: 2-propanol CAS No.: 67-63-0 DNEL: [inh] 500 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 140.9 mg/L PNEC = Predicted No Effected Concentration	
SEC	Product for analytical use. FION 8: Exposure controls/personal protection Control parameters 100 mL FOB Chemical: guanidinium thiocyanate CAS No.: 593-84-0 DNEL: [inh] 1092 µg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 42.4 µg/L PNEC = Predicted No Effected Concentration NIOSH: not listed [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: 2-propanol CAS No.: 67-63-0 DNEL: [inh] 500 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 140.9 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 ppm / 500 mg/m ³ E/e respirable Short-term exposure factor: 2 (II), Y	
SEC	Product for analytical use. FION 8: Exposure controls/personal protection Control parameters 100 mL FOB Chemical: guanidinium thiocyanate CAS No.: 593-84-0 DNEL: [inh] 1092 µg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 42.4 µg/L PNEC = Predicted No Effected Concentration NIOSH: not listed [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: 2-propanol CAS No.: 67-63-0 DNEL: [inh] 500 mg/m ³ DNEL = Derived No Effect Level (for workers) PNEC(fresh water): 140.9 mg/L PNEC = Predicted No Effect d Concentration TRGS 900 (DE): 200 ppm / 500 mg/m ³	
SEC	Product for analytical use. FICON 8: Exposure controls/personal protection Control parameters 100 mL FOB Chemical: guanidinium thiocyanate Chemical: guanidinium thiocyanate Chemical: limh 1092 µg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(freesh water): 42.4 µg/L PNEC = Predicted No Effected Concentration NIOSH: not listed [TVA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: 2-propanol DNEL: [inh] 500 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 140.9 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 ppm / 500 mg/m ³ E/e respirable Short-term exposure factor: 2 (II), Y skin recorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly ex SUVA(CH) MAK value: 200 ppm / 500 mg/m ³ TRGS 903 (DE): [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift NIOSH: [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period MICH STEL: 500 ppm / 1225 mg/L [WA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period MICH STEL: 500 ppm / 1225 mg/L [WA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period [WA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period [WA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period [WA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period [WA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period [WA] Time-weighted average t	kcluded
SEC [.]	Product for analytical use. FION 8: Exposure controls/personal protection Control parameters 100 mL FOB Chemical: guanidinium thiocyanate CAS No.: 593-84-0 DNEL: [inh] 1092 µg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 42.4 µg/L PNEC = Predicted No Effect do concentration NIOSH: not listed [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: 2-propanol CAS No.: 67-63-0 DNEL: [inh] 500 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 140.9 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 ppm / 500 mg/m ³ E/e respirable Short-term exposure factor: 2 (II), Y skin resorptive (H), respiratory sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly ex SUVA(CH) MAK value: 200 ppm / 500 mg/m ³ TRGS 903 (DE): [Aceton B/b, U/b] 25 mg/L B blood, U urine, a not limitation, b end of exposition or shift NIOSH: [TWA] 400 ppm / 980 mg/m ³	cluded



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany FR: US: DE/international: CH: +41 62 388 55 00 Tel.: +49 24 21 969-0 Tel.: Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 +49 24 21 969-199 +41 62 388 55 05 Fax: Fax: Fax: +33 388 51 76 88 Fax: +1 484 821 1272 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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

REF: 740841.100	Binding Buffer FOB (100 mL)	Page: 5/8
Printing date: 12.05.2021	Date of issue: 17.02.2021	
0		

8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 **Respiratory protection** No additional recommendations.

8.2.2 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC (f.ex. from Ansell or KCL).

Eye protection 8.2.3

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin protection

Recommended

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

100) mL	. FOB

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	6.2-7.8	
Flash point:	21 °C	
Specific gravity:	0.89 g/cm ³	

9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. Relevant Properties of Substance Group

Substances are very volantile and form flammable vapour-air mixtures. ---

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability No known instability.

10.3 Possibility of hazardous reactions

Note: Can form very reactive substances with oxidizing agents. Possible: Contact with acids liberates toxic gas. No further data available

10.4 Conditions to avoid Not necessary. ---

10.5 Incompatible materials

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

100 mL FOB

Chemical:	guanidinium thiocyanate	CAS No.: 593-84-0
TSCA Inventory:	listed	California Proposition 65 List: not listed
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	not listed, Japan PI	DSCL: not listed
Japan ISHL:	not listed	
South Korea TCCA:	not listed	



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany 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 Fax: +49 24 21 969-199 +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: Fax: Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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

REF: 740841.100 Binding Buffer FOB (100 mL) Page: 6/8 Date of issue: 17.02.2021 Printing date: 12.05.2021 Korea Exist.Chem.Inventory: not listed LD50_{orl rat} : 593 mg/kg LC50drm rbt : >2000 mg/m3 LC50_{ihl rat} : [4h] 5.319 mg/L LD50ipr mus : 300 mg/kg Chemical: 2-propanol CAS No.: 67-63-0 **TSCA** Inventory: listed California Proposition 65 List: not listed ACGIH: 1230 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Eyes, skin, respiratory system Target Organs: irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis Symptoms: Australia NICNAS: Canada CEPA 1999: DSL yes Japan CSCL/PRTR: PAC yes, Japan PDSCL: -Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required) South Korea TCCA: Korea Exist.Chem.Inventory: KE-29363 LD50orl rat : 5045 mg/kg 3570 mg/kg LC Loworl hmn : LC50_{ihl rat} : 16_{4h} g/m³ 12.8 g/kg LD50drm rbt : TRGS 905 (DE): $R_F C$ CAS No.: 9002-93-1 Chemical: Triton® X-100 **TSCA** Inventory: listed Korea Exist.Chem.Inventory: KE-33568 LD50orl rat : 707-1800 mg/kg LD50drm rbt : 3000-12300 mg/kg chemicals/mixture < 1% CAS No · -Chemical: **TSCA** Inventory: all listed. <1% Korea Exist.Chem.Inventory: listed **SECTION 12: Ecological information** 12.1 Toxicity Following information is valid for pure substances. 100 mL FOB Chemical: guanidinium thiocyanate CAS No.: 593-84-0 PNEC (fresh water) : PNEC = Predicted No Effected Concentration 42.4 µg/L [4d] 89.1 mg/L LC50_{fish/96h}: 42.4 mg/L EC50_{daphnia/48h}: IC50scenedesmus quadricauda/72h : 130 mg/L [10d] 200 mg/L EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient_(octanol-water): [pH 5.1] -1.11 Storage class (VCI): 12 Chemical: CAS No.: 67-63-0 2-propanol PNEC(fresh water) : PNEC = Predicted No Effected Concentration 140.9 mg/L LC50_{fish/96h}: 1400 mg/L EC50_{daphnia/48h} : 13.3 g/L IC50scenedesmus quadricauda/72h : >1000 mg/L EC5: 1050 mg/L EC10pseudomonas putita/16h : Water hazard class (DE): WGK No.: 0135 1 Dispersion coefficient(octanol-water): 0.05 Storage class (VCI): 3



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com

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



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

REF: 7	40841.100	Binding Buffer FOB (100 mL)	Page: 7/8
Printing	g date: 12.05.2021	Date of issue: 17.02.2021	
		-100 lasting effects. Avoid contact of substance/mixtu t be labelled with P phrases until 125 mL (EU 12 1 WGK No.: n.n. 12-13	
	Chemical: chemicals Water hazard class (DE): Storage class (VCI):	//mixture < 1% 1 12-13	CAS No.: -
12.2	Persistence and degradability not necessary		
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB asse no data available	ssment	
12.6	Other adverse effects no additional data available		
SECT	ION 13: Disposal considera	tions	

Do not collect in acidic waste. May form toxic gases.

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

Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport information

14.1 UN number: 14.3 Class:		UN proper shipping n Packing group: II	ame: Fla	ammable liquid, n.o.s. (2-propanol mixture)
Road transport				
Classification code:	F1			
Limited Quantity:	1 L	Tunnel restriction cod	e:	E
Excepted Quantity: Air transport	E 2	Special instructions:	640C	
PAX:	353	max. weight PAX:	5 L	
CAO: Maritime transport	364	max. weight CAO:	60 L	
EmS:	F-E, S-E	Storage category:	В	

14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances, contains only small amounts of these substances

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.

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: Version: M V 4.12.0 E-mail: info@mn-net.com

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

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

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





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

REF: 740841.100	Binding Buffer FOB (100 mL)	Page: 8/8
Printing date: 12.05.2021	Date of issue: 17.02.2021	

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

	H225	Highly flammable liquid and vapour.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	H412	Harmful to aquatic life with long lasting effects.
16.1.2	List of relevant P phrases	
	P210	. Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P233	Keep container tightly closed.
	P260D	Do not breathe vapours.
	P273	Avoid release to the environment.
	P280sh	Wear protective gloves/eye protection.

16.2 **Training advice**

Multiple safety training of staffs about danger and protection by using hazards in working area.

16.3 Recommended restriction on use

Only for professional user.

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 without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

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

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-11 Adaption of ECHA Registration dossier

ACHEREY-NAGE (MN>

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 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com 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