

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

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

1.1	Product identifier
-----	---------------------------

REF21.171 - 21.172Product nameSPEEDTOOLS PLANT DNA EXTRACTION KIT

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 30 mL B 1 x 13 mL E
1 x 25 mL L1
1 x 20 mL L2
1 x 10 mL P
1 x 30 mL W1
1 x 25 mL W2
1 x 0.6-20 mg RNase A (lyo)

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

Biotools, B & M Labs, S.A Valle de Tobalina – 52 – Nave 39 28021 Madrid SPAIN Tel: +34 91 710 00 74 Fax: +34 91 505 31 18

1.4 Emergency telephone number

Please contact Biotools distributor in your country. Spain only: 91 562 04 20

DANGER

SECTION 2: Hazard identification

2.0 Classification of the complete product



Signal word

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H336, H335	STOT SE 3

2.1 Classification of the substance or mixture

30 mL B



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	GHS02 GHS07	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226 H302	Flam. Liq. 3 Acute Tox. 4 oral	
13 mL E		
Signal word	Do not need labelling as hazardous -	
No hazard class		
25 mL L1		
Signal word	Do not need labelling as hazardous -	
No hazard class		
20 mL L2		
Signal word	Do not need labelling as hazardous -	
No hazard class		
10 mL P		
Signal word	Do not need labelling as hazardous -	
No hazard class		
30 mL W1		



Signal word	WARNING
Hazard identification	Hazard classes/categories
H226 H302 H319 H336, H335	Flam. Liq. 3 Acute Tox. 4 oral Eye Irrit. 2 STOT SE 3

25 mL W2

Signal word

Do not need labelling as hazardous

No hazard class



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0.6-20 mg RNase A (Iyo)

	GHS08
Signal word	DANGER
Hazard identification	Hazard classes/categories
H334	Resp. Sens. 1

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). This labelling exemption is NOT valid for sensibilizing substances. The irritant hazard should be eliminated, because of buffer chemicals inside.

30 mL B



Signal word: WARNING

13 mL E

Do not need labelling as hazardous Signal word: -

25 mL L1

Do not need labelling as hazardous Signal word: -

20 mL L2

Do not need labelling as hazardous Signal word: -

10 mL P

Do not need labelling as hazardous Signal word: -

30 mL W1



Signal word: WARNING

25 mL W2

Do not need labelling as hazardous Signal word: -

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BIOECC

BIOTOOLS B&M LABS S A

0.6-20 mg RNase A (Iyo)



Signal word: DANGER

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P342+311 Avoid breathing dust/vapours. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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. ---

Information pertaining to particular risks to human and possible symptoms Cause after oral intake, impairments of health when ingested in small quantities. Kit contains small amounts of enzymes: May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

 Information pertaining to particular risks to the environment

 PBT:
 not applicable

 vPvB:
 not applicable

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

30 mL B

Chemica	l: guanio	dine hydrochloride		CAS No.: 50-01-1
Classific		H302, Acute Tox. 4 oral, H315	, Skin Irrit. 2, H319, Eye	e Irrit. 2
Formula		CH ₆ CIN ₃		
Pseudor	ym: ventory:	guanidinium chloride listed		
	Reg. No.:	01-2119977063-35-0005		
EC No.:	1109.110	200-002-3	Indice No.:	607-148-00-0
RTECS:		MF4300000	MFCD:	00013026
KE No.:		KE-18111		
Concent		24 - <36 %		
acc. CLF	? (GHS):	H302, Acute Tox. 4 oral		
Chemica	l: ethan	ol		CAS No.: 64-17-5
onomioc		tured with 1%IPA/1%MEK, acc.2	2016/1867/EU)	
Classific		H225, Flam. Liq. 2	,	
Formula		$C_2 H_6 O; C_2 H_5 OH$		
Pseudor		ethyl alcohol, methylated spirit		
	ventory:	listed		
EC No.:	Reg. No.:	01-2119457610-43-xxxx 200-578-6	Indice No.:	603-002-00-5
RTECS:		KQ6300000	MFCD:	00003568
KE No.:		KE-13217		
Concent	ration:	35 - <55 %		
acc. CLF	? (GHS):	H226, Flam. Liq. 3		

13 mL E



CAS No.: - quired. CAS No.: 7647-14-5
quired. CAS No.: 7647-14-5
quired. CAS No.: 7647-14-5
CAS No.: 7647-14-5
quired.
CAS No.: 151-21-3
H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute
cyl ester sodium salt
00036175
CAS No.: 7647-14-5
quired.
CAS No.: -
quired.
CAS No.: -
quired.
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Date Updated: 26/04/2021	DNA EXTRACT	ΓΙΟΝ ΚΙΤ		-
Chemical: guani Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.:	dine hydrochloride H302, Acute Tox. 4 oral, H31 CH ₆ CIN ₃ guanidinium chloride listed 01-2119977063-35-0005	5, Skin Irrit. 2, H319, Eye	CAS No.: 50-01-1 ∋ Irrit. 2	
EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	MF4300000 KE-18111 36 - <50 % H302, Acute Tox. 4 oral, H31	Indice No.: MFCD: 9, Eye Irrit. 2	607-148-00-0 00013026	
Chemical: 2-proj Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.:	banol H225, Flam. Liq. 2, H319, Ey C ₃ H ₈ O isopropanol, IPA, propan-2-o listed 01-2119457558-25-XXXX		CAS No.: 67-63-0	
EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	200-661-7 NT8050000 KE-29363 20 - <35 % H226, Flam. Liq. 3, H319, Ey	Indice No.: MFCD: re Irrit. 2, H336, STOT SE	603-117-00-0 00011674	
25 mL W2				
Chemical: <i>chem</i> Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	icals/mixture < 1% No criteria for classification or namin all listed, <1% listed 0.1 - <1 % The criteria for classification are not		CAS No.: -	
0.6-20 mg RNase A (lyo) Chemical: <i>RNas</i>	e		CAS No.: 9001-99-4	
Classification: Formula: Pseudonym: TSCA Inventory: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	H334, Resp. Sens. 1 Enzyme Comm. No. 3.1.27.5 Nuclease, ribo- listed 232-646-6 RF0760000 KE-30341 90 - <100 % H334, Resp. Sens. 1	, origin: bovine pancreas (contr		

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. Take to a doctor, in a raised position if there are breathing difficulties.

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. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

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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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

4.3 Indication of any immediate medical attention and special treatment needed

Inform patient respectively further measures and the possibility of long-term damages. ---

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 WARNING: Flammable (GHS regulation). May form 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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. 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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

7.2 Conditions for safe storage, including any incompatibilities

Storage class (VCI): 3 Water hazard class (DE): 2 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

7.2.1

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

30 mL B Chemical: guanidine hydrochloride DNEL: [inh] 3.5 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): -

CAS No.: 50-01-1

BIOLOLS BAM LABS.S.A.



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	PNE	C = Predicted No Effe	cted Concentration	
	NIOSH:		not listed	
	-	A] Time-weighted aver	age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		not listed	
	Chemical:	ethanol	CAS No.: 64-17-5	
	DNEL:	L = Derived No-Effect	[derm] 343 mg/kg; [inh] 950 mg/m ³	
	PNE	water) : C = Predicted No Effe	cted Concentration	
	TRGS 900	(DE):	200 mL/m ³ / 380 mg/m ³ E/e respirable	
	Short-term	exposure factor:	•	
	skin	resorptive (H), respire	atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly exclude	d
	SUVA(CH) NIOSH:	MAK value:	500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³	
		A] Time-weighted aver	age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		[TWA] 1000 ppm / 1900 mg/m³	
	13 mL E Chemical:	chemicals/mixtu	rre < 1% CAS No.: -	
	Chemical.	Chemicals/mixit		
	25 mL L1			
	Chemical:	sodium chloride	CAS No.: 7647-14-5	
	20 mL L2			
	Chemical: NIOSH:	dodecyl sulfate,	sodium salt CAS No.: 151-21-3 not listed	
		A] Time-weighted aver	age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		not listed	
	Chemical:	sodium chloria	e CAS No.: 7647-14-5	
	Chemical:	chemicals/mix	<i>ture < 2%</i> CAS No.: -	
	40 ml D			
	10 mL P Chemical:	acetate buffer s	olution CAS No.: -	
	0			
	30 mL W1			
	Chemical:	guanidine hydro		
	DNEL:	L = Derived No-Effect	[inh] 3.5 mg/m ³ Level (for workers)	
	PNEC(fresh	water):	-	
	`PNE NIOSH:	C = Predicted No Effe		
		A] Time-weighted aver	not listed age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		not listed	
	Chomical	2 proposal	040 No . 67 00 0	
	Chemical: DNEL:	2-propanol	[inh] 500 mg/m ³ CAS No.: 67-63-0	
	DNE	L = Derived No-Effect	Level (for workers)	
	PNEC(fresh	water) : C = Predicted No Effe	140.9 mg/L cted Concentration	
	TRGS 900		200 ppm / 500 mg/m ³	
		()	E/e respirable	
		exposure factor: resorptive (H) respire	2 (II), Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly exclude	d
		MAK value:	200 ppm / 500 mg/m ³	4
	TRGS 903		[Aceton B/b, U/b] 25 mg/L	
	NICOLI		B blood, U urine, a no limitation, b end of exposition or shift	
	NIOSH:	SH STEL:	[TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³	
			age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	[100	g mine weighted aver		

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		DNA EXTRAC		
	25 mL W2 Chemical:	chemicals/mixture < 1%	CAS No.: -	
	0.6-20 mg Chemical:	RNase A (Iyo) RNase	CAS No.: 9001-99-	4
8.2		ontrols and extraction system in the room, floor resistar ass must be maintained at the workplace.	t to chemicals with floor drainage and washing f	acilities. The highest
8.2.1		y protection n access of these substances for example a prot	ection filter, class A/AX. No additional recomme	ndations.
8.2.2				r Nitril (f.ex. from Ansell
8.2.3	Eye protec Yes, safety	tion glasses according EN 166 with integrated side s	hields or wrap-around protection.	
8.2.4	Skin prote Recommer	ction ded to avoid contamination with these hazards.		
8.2.5	with the ski	ygiene king, smoking, taking snuff and storage of food ir n, eyes and clothing. Rinse any clothing on which with soap and water when stopping work and bef	the substance has been spilled, and soak it in v	water. Wash hands

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

30 mL B Appearance: liquid pH: Flash point: Specific gravity:	Colour: yellow 5-7 23 °C 1.01 g/cm³	Odor: alcoholic
13 mL E Appearance: liquid pH: Specific gravity:	Colour: colourless 8-9 1.0 g/cm³	Odor: odorless
25 mL L1 Appearance: liquid pH: Specific gravity:	Colour: colourless 7.5-8.5 1.06 g/cm³	Odor: odorless
20 mL L2 Appearance: liquid pH: Specific gravity:	Colour: colourless 7.5-8.5 1.03 g/cm³	Odor: odorless
10 mL P Appearance: liquid pH: Specific gravity:	Colour: colourless 5-6 1.19 g/cm³	Odor: acetic
30 mL W1 Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 7-8 25 °C 1.06 g/cm³	Odor: alcoholic





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		DNA EXTRACTION	i kit
	25 mL W2		
	Appearance: liquid pH:	Colour: colourless 7-8	Odor: odorless
	Specific gravity:	1.00 g/cm ³	
	0.6-20 mg RNase A (Iyo)		
	Appearance: solid (lyoph.) Solubility in water:	Colour: colourless 0-100 %	Odor: odorless
9.2	Other information		
	Data for the other parameters of the	mixtures are not available beca	use no registration and no chemical safety report is required.
			the regionation and the chemical carety report to required.
	Relevant Properties of Substance		
0-0-	Relevant Properties of Substance	Group	
SECT	Relevant Properties of Substance	Group	
SECT 10.1	Relevant Properties of Substance	Group	
	Relevant Properties of Substance TION 10: Stability and rea	Group	
	Relevant Properties of Substance TION 10: Stability and rea Reactivity	Group	
10.1	Relevant Properties of Substance FION 10: Stability and rea Reactivity no further data available. Chemical stability	actions	
10.1 10.2	Relevant Properties of Substance TION 10: Stability and rea Reactivity no further data available. Chemical stability No known instability. Possibility of hazardous re	actions	
10.1 10.2 10.3	Relevant Properties of Substance TION 10: Stability and rea Reactivity no further data available. Chemical stability No known instability. Possibility of hazardous re Note: Can form very reactive substa Conditions to avoid	actions	
10.1 10.2 10.3 10.4	Relevant Properties of Substance TION 10: Stability and rea Reactivity no further data available. Chemical stability No known instability. Possibility of hazardous re Note: Can form very reactive substa Conditions to avoid Not necessary	actions Inces with oxidizing agents. No fu	
10.1 10.2 10.3 10.4	Relevant Properties of Substance TION 10: Stability and real Reactivity no further data available. Chemical stability No known instability. Possibility of hazardous re Note: Can form very reactive substate Conditions to avoid Not necessary Incompatible materials Avoid contact with strong acids or all Hazardous decomposition	actions Inces with oxidizing agents. No ful Ikalines. products	

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.

nL B

·			
		nidine hydrochloride	CAS No.: 50-01-1
	TSCA Inventory:	listed	California Proposition 65 List: not listed
	Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
	Japan CSCL/PRTR:	not listed, Japan PDS	SCL: not listed
	Japan ISHL:	not listed	
	South Korea TCCA:	not listed	
	Korea Exist.Chem.Invento	ory: KE-18111	
	LD50 _{orl rat} :	475-907 mg/kg	
	LC50 _{ihl rat} :	[4h] 3181-7655 µg/m	3
	LD50 _{drm rbt} :	2000 mg/kg	
	Acute Effects: Cause after	r oral intake, impairments	s of health when ingested in small quantities.
	Chemical: etha	anol	CAS No.: 64-17-5
	TSCA Inventory:	listed	California Proposition 65 List: not listed
	ACGIH:	1000 ppm	
	Exposure Routes:		skin and/or eye contact
	Target Organs:	Eyes, skin, respirator	ry system, central nervous system, liver, blood, reproductive system
	Symptoms:	irritation eyes, skin, r	nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;
	liver damage; anemia; rep	productive, teratogenic	
	Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
	Japan CSCL/PRTR:	not listed, Japan PDS	SCL: not listed
	Japan ISHL:	listed ≥0,1%/≥0,1%, /	Article 57-2 (SDS required)
	South Korea TCCA:	not listed	
	Korea Exist.Chem.Invento		
	LD50 _{orl rat} :	6200 mg/kg	
	LC_Low _{ihl gpg} :	21.9 g/m³	
	LO_LOWINI gpg .	21.5 g/m	



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LC_LoWorl hmn: LC50 _{ihl mouse} : LC50 _{ihl rat} : LD50 _{drm rbt} : LD50 _{oral mouse} :	1400 mg/kg [4h] 39 g/m³ [10h] 20 g/m³ 20 000 mg/kg 3450 mg/kg		
TRGS 905 (DE):	K5, M5, R _F C		
13 mL E			
Chemical: TSCA Inventory: Korea Exist.Chem.Inv	chemicals/mixture < 1% all listed, <1% entory: listed	CAS No.: -	
25 mL L1			
Chemical: TSCA Inventory: Korea Exist.Chem.Inv LD50 _{orl rat} : LD50 _{drm rbt} :	sodium chloride listed entory: KE-31387 3000 mg/kg 10 g/kg	CAS No.: 7647-14-5	
20 mL L2			
Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50orl rat : LC50inh rat : LD50drm rbt :	not listed PRTR - Class I Designated C not listed not listed	CAS No.: 151-21-3 nia Proposition 65 List: not listed Canada CEPA 1999: DSL yes hemical Substance, Japan PDSCL: not listed	
Chemical: TSCA Inventory: Korea Exist.Chem.Inv LD50 _{orl rat} : LD50 _{drm rbt} :	sodium chloride listed rentory: KE-31387 3000 mg/kg 10 g/kg	CAS No.: 7647-14-5	
Chemical: TSCA Inventory: Korea Exist.Chem.Inv	chemicals/mixture < 2% all listed, <2% entory: listed	CAS No.: -	
10 mL P			
Chemical: TSCA Inventory: Korea Exist.Chem.Inv	acetate buffer solution all listed entory: listed	CAS No.: -	
TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA:	not listed not listed, Japan PDSCL: not not listed not listed	CAS No.: 50-01-1 nia Proposition 65 List: not listed Canada CEPA 1999: DSL yes listed	
Korea Exist.Chem.Inv LD50 _{orl rat} : LC50 _{ihl rat} : LD50 _{drm rbt} :	entory: KE-18111 475-907 mg/kg [4h] 3181-7655 μg/m³ 2000 mg/kg		



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Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Invento LD50orl rat : LC_LOWorl hmn : LC50ihl rat :	ry: KE-29363 570 mg/k inhalation, Eyes, skin irritation ey PAC yes, v listed ≥1,0 ry: KE-29363 5045 mg/k 3570 mg/k 164h g/m ³	ingestion, skin and , respiratory system yes, nose, throat; dr Japan PDSCL: - %/≥0,1%, Article 57 g	/or eye contact owsiness, dizziness, Canada CEPA 1999:	headache; dry cracking skin; in animals: narcosis
	0.0			
	NF C			
Chemical: chem TSCA Inventory:	all listed, <			CAS No.: -
Chemical: RNa TSCA Inventory: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invento LD50 _{intraperitonaeal rat} : Acute Effects: Cause after Chronic Effects: May caus	se listed not listed not listed ry: KE-30341 392 mg/kg impairments e sensitizatior	of health when inge h by skin contact, al		
12: Ecological in	formatio	n		
owing information is valid 30 mL B Chemical: PNEC(fresh water) : PNEC = Predicted No Effect LC50leuciscus idus/96h : LC50dish/96h : EC50daphnia/48h : EC10pseudomonas putita Water hazard class (E	guanidine hyc	frochloride n 1759 mg/L [4d] 690-1850; [48 70.2 mg/L [72h] 11.8-33.5 m 1 WGK No.:	g/L	CAS No.: 50-01-1
	TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Invento LD50ofrat: LC_LOWorthmn: LC50ihi rat: LD50drm rbt: TRGS 905 (DE): mL W2 Chemical: chem. TSCA Inventory: Korea Exist.Chem.Invento -20 mg RNase A (Iyo Chemical: RNa TSCA Inventory: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invento LD50intraperitonaeal rat: Acute Effects: Cause after Chronic Effects: May caus symptoms or breathing diff 12: Ecological in xicity Iowing information is valid 30 mL B Chemical: PNEC(fresh water): PNEC = Predicted No Effect LC50[euciscus idus/96h : LC50[aphinia/48h : EC10[pseudomonas putita	TSCA Inventory: listed ACGIH: 1230 ppm Exposure Routes: inhalation, Target Organs: Eyes, skin Symptoms: irritation ey Australia NICNAS: Japan CSCL/PRTR: Japan CSCL/PRTR: PAC yes, , Japan ISHL: listed ≥1,0 South Korea TCCA: Korea Exist.Chem.Inventory: Kcrea Exist.Chem.Inventory: KE-29363 LD50orl rat: 5045 mg/k LC_Lowort hmn: 3570 mg/k LC50ihl rat: 164h g/m³ LD50drm rbt: 12.8 g/kg TRGS 905 (DE): RF C mL W2 Chemical: Chemical: <i>chemicals/mixture</i> TSCA Inventory: all listed, < Korea Exist.Chem.Inventory: listed Japan CSCL/PRTR: not listed Japan CSCL/PRTR: not listed Japan ISHL: not listed Japan CSCL/PRTR: not listed Japan CSCL/PRTR: not listed Japan CSCL/PRTR: not listed Japan CSCL/PRTR: not listed Japan ISHL: not list	TSCA Inventory: listed Caliform ACGIH: 1230 ppm Exposure Routes: inhalation, ingestion, skin and Target Organs: Eyes, skin, respiratory system Symptoms: irritation eyes, nose, throat; dr Japan CSCL/PRTR: PAC yes, Japan PDSCL: - Japan ISHL: listed ≥1,0%/≥0,1%, Article 57 South Korea TCCA: Korea Exist.Chem.Inventory: Korea Exist.Chem.Inventory: KE-29363 LC_Lowort hmn: 3570 mg/kg LC_Lowort hmn: 3570 mg/kg LC_Lowort hmn: 3570 mg/kg LC_Solini rat: 164 _h g/m³ LD50drm rbt: 12.8 g/kg TRGS 905 (DE): RF C mL W2 Chemical: Chemical: <i>chemicals/mixture < 1%</i> TSCA Inventory: all listed Japan CSCL/PRTR: not listed Korea Exist.Chem.Inventory: KE-30341 LD50	TSCA Inventory: listed California Proposition 65 List ACGIH: 1230 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system Symptoms: irritation eyes, nose, throat, drowsiness, dizziness, Australia NICNAS: Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required) South Korea TCCA: South Korea TCCA: Korea Exist.Chem.Inventory: KE-29363 LD50ort rat: D50ort rat: 164h g/m³ LD50ort rat: 164h g/m³ LD50dm rbt: 12.8 g/kg TRGS 905 (DE): RF C mL W2 Chemical: Chemical: <i>chemicals/mixture < 1%</i> TSCA Inventory: all listed Japan ISHL: not listed Japan CSCL/PRTR: not listed Japan CSCL/PRTR: not listed Japan CSCL/PRTR: not listed Japan SCL/PRTR: not listed Japan SHL: not listed Japan SCL/PRTR: not listed Japan SHL: not listed Japan SCL/PRTR: not listed Japan SHL:



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	Storage class (VCI):	3	
		5	
13 n	IL E		
	Chemical: chemicals/mix		CAS No.: -
	Water hazard class (DE):	1 12-13	
	Storage class (VCI):	12-13	
25 m	NL L1		
	Chemical: sodium chloric	le	CAS No.: 7647-14-5
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
20 m	nL L2		
	Chemical: dodecyl sulfate	e, sodium salt	CAS No.: 151-21-3
	LC50daphnia magna/48h	6.3 mg/L	
	LC50 _{fish/96h} :	1.31-22.5 mg/L	
	Water hazard class (DE):	2	
	Dispersion coefficient _(octanol-water) : Storage class (VCI):	1.6 12-13	
	Storage class (VCI).	12-13	
	Chemical: sodium chloric		CAS No.: 7647-14-5
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
	Chemical: chemicals/mix	ture < 2%	CAS No.: -
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
10 m			
	Chemical: acetate buffer	solution	CAS No.: -
	Storage class (VCI):	12	
	nL W1	we also wish	CAC No - 50 01 1
	Chemical: guanidine hyd		CAS No.: 50-01-1
	PNEC (fresh water) : PNEC = Predicted No Effected Concentratior	- 1	
	LC50leuciscus idus/96h :	1759 mg/L	
	LC50 _{fish/96h} :	[4d] 690-1850; [48h] 1758-2420 mg/L	
	EC50 _{daphnia/48h} :	70.2 mg/L	
	EC10pseudomonas putita/16h	[72h] 11.8-33.5 mg/L	
	Water hazard class (DE):	1 WGK No.: 0788	
	Storage class (VCI):	12	
	Chemical: 2-propanol		CAS No.: 67-63-0
	PNEC(fresh water) : PNEC = Predicted No Effected Concentratior	140.9 mg/L	
	LC50 _{fish/96h} : EC50 _{daphnia/48h} :	1400 mg/L 13.3 g/L	
	IC50scenedesmus quadricauda/72h :	>1000 mg/L	
	EC10pseudomonas putita/16h	EC5: 1050 mg/L	
	Water hazard class (DE):	1 WGK No.: 0135	
	Dispersion coefficient(octanol-water):	0.05	
	Storage class (VCI):	3	
25 m	nL W2		
	Chemical: chemicals/mix	ture < 1%	CAS No.: -
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
0.6-2	20 mg RNase A (Iyo)		
	Chemical: RNase		CAS No.: 9001-99-4
	Water hazard class (DE):	1	
	Storage class (VCI):	13	

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

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12.2	Persistence and degradab not necessary	ility	
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB a no data available	assessment	
12.6	Other adverse effects no additional data available		
	ION 13: Disposal consid	derations	

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

UN 1993 class 3 III, **Excepted Quantities** (≤30 mL/∑≤1 L) = ADR/ IATA E1 or

14.1 UN number: 14.3 Class:		2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol, 2-propanol mixture) 4 Packing group: III
Road transport		
Classification code:	F1	
Limited Quantity:	5 L	Tunnel restriction code: E
Excepted Quantity: Air transport	E 1	Special instructions: 640E
PAX:	355	max. weight PAX: 60 L
CAO: Maritime transport	366	max. weight CAO: 220 L
EmS:	F-E, S-E	Storage category: A

14.5 Environmental hazards

none, contains only small quantities of hazardous 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.

 15.2 Chemical safety assessment

not necessary for these small amounts ---

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

SECTION 16: Other information				
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BIOHO

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

10.1.1	List of relevant n philases		
	H226	Flammable liquid and vapour.	
	H302	Harmful if swallowed.	
	H319	Causes serious eye irritation.	
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	H336	May cause drowsiness or dizziness.	
16.1.2	List of relevant P phrases		
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P260D	Do not breathe vapours.	
	P261sh	Avoid breathing dust/vapours	
	P264W	Wash with water thoroughly after handling.	
	P280sh	Wear protective gloves/eye protection.	
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	P330	Rinse mouth.	
	P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.	

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

BIOTOOLS B&M LABS S.A. 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 REGS 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 TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

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

2017-08 Adaption of new ethanol denaturation 2016/1867/EU 2017-11 Adaption of ECHA Registration dossier