

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**

REF 21.221 - 21.222

SPEEDTOOLS PLASMID DNA PURIFICATION KIT Product name

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 15 mL Resuspension Buffer (R)

1 x 15 mL Lysis Buffer (L)

1 x 20 mL Neutralization Buffer (N)

1 x 12 mL Wash Buffer 2 (WB2) 1 x 13 mL Elution Buffer (E)

1 x 30 mL Wash Buffer 1 (WB1)

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

Tel: +34 91 710 00 74 Fax: +34 91 505 31 18

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

1.4 **Emergency telephone number**

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

SECTION 2: Hazard identification

2.0 Classification of the complete product







GHS02

GHS07

Signal word **DANGER**

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H336	STOT SE 3

Classification of the substance or mixture 2.1

15 mL R

Do not need labelling as hazardous



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Signal word

No hazard class

15 mL L



Signal word WARNING

Hazard identification Hazard classes/categories H315 Skin Irrit. 2 H319 Eye Irrit. 2

20 mL N



Signal word WARNING

Hazard identification Hazard classes/categories H302 Acute Tox. 4 oral H319 Eye Irrit. 2

Do not need labelling as hazardous

Signal word

No hazard class

13 mL E

12 mL WB2

Do not need labelling as hazardous

Signal word

No hazard class

30 mL WB1





Signal word WARNING

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



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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.

15 mL R

Do not need labelling as hazardous Signal word: -

15 mL L



GHS07

Signal word: WARNING

20 mL N



GHS07

Signal word: WARNING

12 mL WB2

Do not need labelling as hazardous Signal word: -

13 mL E

Do not need labelling as hazardous Signal word: -

30 mL WB1





GHS02 GHS0

Signal word: WARNING



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0.6-20 mg RNase A (Iyo)



GHS08

Signal word: DANGER

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

15 mL R

Chemical: chemicals/mixture < 1% CAS No .: -

Classification: No criteria for classification or naming of chemical not required.

TSCA Inventory: all listed, <1% KE No.: listed Concentration: 0.1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

15 mL L

Chemical: sodium hydroxide solution (diluted < 2 %) CAS No.: 1310-73-2d

Classification: H314, Skin Corr. 1B NaOH•H2O Formula: diluted soda lye Pseudonvm:

TSCA Inventory: listed

REACH Reg. No.: 01-2119457892-27-xxxx

EC No.: 215-185-5 Indice No.: 011-002-00-6

RTECS: WB4900000 KE-31487 KE No.: Concentration: 0.5 - <1 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

dodecyl sulfate, sodium salt Chemical: CAS No.: 151-21-3

H228, Flam. Sol. 1, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute Classification:

Tox. 4 inh., H335, STOT SE 3, H412, Aquatic Chronic 3

Formula: C₁₂ H₂₅ NaO₄ S

Pseudonym: sodium lauryl sulfate, sulfuric acid monododecyl ester sodium salt

TSCA Inventory:

REACH Reg. No.: 01-2119489461-32-xxxx

EC No.: 205-788-1

WT1050000 RTECS: MECD: 00036175

KE No.: KE-21884 Concentration:

acc. CLP (GHS): The criteria for classification are not fulfilled



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indicator dye(s)

CAS No.: -

Classification: No criteria for classification or naming of chemical not required.

TSCA Inventory: all listed, <1% Concentration: < 0.01 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

20 mL N

Chemical:

Chemical: guanidine hydrochloride CAS No.: 50-01-1

Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: CH₆ CIN₃

Pseudonym: guanidinium chloride

TSCA Inventory: listed

REACH Reg. No.: 01-2119977063-35-0005

EC No.: 200-002-3 Indice No.: 607-148-00-0 RTECS: MF4300000 MFCD: 00013026

KE No.: KE-18111 Concentration: 36 - <50 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

12 mL WB2

Chemical: chemicals/mixture < 1% CAS No.: -

Classification: No criteria for classification or naming of chemical not required.

TSCA Inventory: all listed, <1% listed
Concentration: 0.1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

13 mL E

Chemical: chemicals/mixture < 1% CAS No.: -

Classification: No criteria for classification or naming of chemical not required.

TSCA Inventory: all listed, <1% listed
Concentration: 0.1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

30 mL WB1

Chemical: guanidine hydrochloride CAS No.: 50-01-1

Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: CH₆ CIN₃

Pseudonym: guanidinium chloride

TSCA Inventory: listed

REACH Reg. No.: 01-2119977063-35-0005

EC No.: 200-002-3 Indice No.: 607-148-00-0 RTECS: MF4300000 MFCD: 00013026

KE No.: KE-18111 Concentration: 36 - <50 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

Chemical: 2-propanol CAS No.: 67-63-0

Classification: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3 Formula: $C_3 H_8 O$

Formula: C₃ H₈ 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: 20 - <35 %

acc. CLP (GHS): H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3

0.6-20 mg RNase A (Iyo)



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Chemical: RNase CAS No.: 9001-99-4

Classification: H334, Resp. Sens. 1

Formula: Enzyme Comm. No. 3.1.27.5, origin: bovine pancreas (controlled population)

Pseudonym: Nuclease, ribo-

TSCA Inventory: listed
EC No.: 232-646-6
RTECS: RF0760000
KE No.: KE-30341
Concentration: 90 - <100 %
acc. CLP (GHS): H334, Resp. Sens. 1

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. ---

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.



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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.

Conditions for safe storage, including any incompatibilities 7.2

Storage class (VCI): Water hazard class (DE):

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.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1

15 mL R

Chemical: chemicals/mixture < 1% CAS No .: -

15 mL L

Chemical: sodium hydroxide solution CAS No.: 1310-73-2d

Chemical: CAS No.: 151-21-3 dodecyl sulfate, sodium salt

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: CAS No .: indicator dve(s)

20 mL N

guanidine hydrochloride CAS No.: 50-01-1 Chemical:

DNEL: [inh] 3.5 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water) - PNEC = Predicted No Effected Concentration

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

12 mL WB2

Chemical: chemicals/mixture < 1% CAS No .: -

13 mL E

Chemical: chemicals/mixture < 1% CAS No .: -

30 mL WB1

guanidine hydrochloride CAS No.: 50-01-1 Chemical:

DNEL: [inh] 3.5 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): PNEC = Predicted No Effected Concentration

NIOSH: not listed



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[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

CAS No.: 67-63-0 Chemical: 2-propanol

[inh] 500 mg/m³ DNEL: DNEL = Derived No-Effect Level (for workers) 140.9 mg/L PNEC_(fresh water): 140.9 mg/L PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 200 ppm / 500 mg/m³

Short-term exposure factor: 2 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 200 ppm / 500 mg/m³ TRGS 903 (DE):

[Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift

[TWA] 400 ppm / 980 mg/m³ NIOSH:

NIOSH STEL: 500 ppm / 1225 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 400 ppm / 980 mg/m³

0.6-20 mg RNase A (Iyo)

Chemical: CAS No.: 9001-99-4

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

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

8.2.2

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3

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

Skin protection 8.2.4

Recommended to avoid contamination with these hazards.

8.2.5 Personal hygiene

> Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

15 mL R

Colour: colourless Odor: odorless Appearance: liquid

7.5-8.5 :Ha Specific gravity: 1.00 g/cm³

15 mL L

Appearance: liquid Colour: blue Odor: odorless

Specific gravity: 1.008 g/cm³

20 mL N

Colour: colourless Odor: acetic Appearance: liquid

4-4 5 Specific gravity: 1.14 g/cm³

12 mL WB2



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Odor: odorless

Appearance: liquid Colour: colourless

7-8

Ĥ:

Specific gravity: 1.00 g/cm³

13 mL E

Appearance: liquid Colour: colourless Odor: odorless

pH: 8-9 Specific gravity: 1.0 g/cm³

30 mL WB1

Appearance: liquid Colour: colourless Odor: alcoholic

pH: 7-8
Flash point: 25 °C
Specific gravity: 1.06 g/cm³

0.6-20 mg RNase A (Iyo)

Appearance: solid (lyoph.) Colour: colourless Odor: odorless

Solubility in water: 0-100 %

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**

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. 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.

15 mL R

Chemical: chemicals/mixture < 1% CAS No.: -

TSCA Inventory: all listed, <1% Korea Exist.Chem.Inventory: listed

15 mL L

Chemical: sodium hydroxide solution CAS No.: 1310-73-2d

TSCA Inventory: listed California Proposition 65 List: not listed

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system

Symptoms: -

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: not listed ≥1,0%/≥1,0% SDS required

Korea Exist.Chem.Inventory: KE-31487



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> LD50_{orl rat}: [< 1%] > 50 g/kg not applicable LD50_{drm rbt}: LD50_{orl mus}: [< 1%] > 4 g/kg

dodecyl sulfate, sodium salt CAS No.: 151-21-3 Chemical:

TSCA Inventory: California Proposition 65 List: not listed listed Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: PRTR - Class I Designated Chemical Substance, Japan PDSCL: not listed

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-21884 1288 mg/kg LD50_{orl rat}: LC50inh rat: 3900_{1h} mg/m³ LD50_{drm rbt}: 10 g/kg

Chemical: indicator dye(s) CAS No .: -

TSCA Inventory: all listed, <1%

20 mL N

Chemical: guanidine hydrochloride CAS No.: 50-01-1

TSCA Inventory: California Proposition 65 List: not listed listed Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-18111 475-907 mg/kg LD50_{orl rat}: [4h] 3181-7655 µg/m³ LC50ihl rat:

LD50_{drm rbt}: 2000 mg/kg
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

12 mL WB2

Chemical: CAS No chemicals/mixture < 1%

TSCA Inventory: all listed. <1%

Korea Exist.Chem.Inventory: listed

13 mL E

Chemical: chemicals/mixture < 1% CAS No : -

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

30 mL WB1

Chemical: guanidine hydrochloride CAS No.: 50-01-1

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-18111 475-907 mg/kg [4h] 3181-7655 μg/m³ LD50_{orl rat}: LC50_{ihl rat}: LD50_{drm rbt}: 2000 mg/kg

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

CAS No.: 67-63-0 Chemical: 2-propanol

TSCA Inventory: California Proposition 65 List: not listed listed

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, headache; dry cracking skin; in animals: narcosis



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> Australia NICNAS: Canada CEPA 1999: DSL yes

PAC yes, Japan PDSCL: -Japan CSCL/PRTR:

listed ≥1,0%/≥0,1%, Article 57-2 (SDS required) Japan ISHL:

South Korea TCCA:

Korea Exist.Chem.Inventory: KE-29363 LD50_{orl rat}: 5045 mg/kg 3570 mg/kg LC Loworl hmn: LC50_{ihl rat}: 16_{4h} g/m³ LD50_{drm rbt}: 12.8 g/kg

TRGS 905 (DE): R_F C

0.6-20 mg RNase A (lyo)

Chemical: CAS No.: 9001-99-4 RNase

TSCA Inventory: listed Japan CSCL/PRTR: not listed Japan ISHL: not listed Korea Exist.Chem.Inventory: KE-30341 LD50intraperitonaeal rat: 392 mg/kg

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

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.

SECTION 12: Ecological information

12.1

Following information is valid for pure substances.

CAS No .: chemicals/mixture < 1%

Water hazard class (DE): 12-13 Storage class (VCI):

15 mL L

CAS No.: 1310-73-2d sodium hydroxide solution Chemical:

35-189 mg/L LC50leuciscus idus/96h: LC50_{fish/96h}: 45.4 mg/L EC50_{daphnia/48h}: >100 mg/L

Water hazard class (DE): WGK No.: 0142 nwg

Storage class (VCI): 12-13

Chemical: dodecyl sulfate, 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) 16 Storage class (VCI): 12-13

indicator dye(s) CAS No .: -Chemical:

Storage class (VCI):

20 mL N

Chemical: guanidine hydrochloride CAS No.: 50-01-1

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

LC50_{leuciscus idus/96h}: 1759 mg/L

LC50_{fish/96h}: [4d] 690-1850; [48h] 1758-2420 mg/L

EC50_{daphnia/48h}: 70.2 mg/L

[72h] 11.8-33.5 mg/L EC10_{pseudomonas putita/16h}: WGK No.: 0788 Water hazard class (DE):

Storage class (VCI):



CAS No.: -

CAS No .: -

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12 mL WB2

Chemical: chemicals/mixture < 1%

Water hazard class (DE):

Storage class (VCI): 12-13

13 mL E

Chemical: chemicals/mixture < 1%

Water hazard class (DE):

Storage class (VCI):

30 mL WB1

CAS No.: 50-01-1 guanidine hydrochloride Chemical:

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

1759 mg/L

LC50_{leuciscus idus/96h}: LC50_{fish/96h}: [4d] 690-1850; [48h] 1758-2420 mg/L

 $EC50_{daphnia/48h}$: 70.2 mg/L

[72h] 11.8-33.5 mg/L EC10_{pseudomonas putita/16h}: Water hazard class (DE): WGK No.: 0788

Storage class (VCI): 12

CAS No.: 67-63-0 Chemical: 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 >1000 mg/L EC5: 1050 mg/L IC50scenedesmus quadricauda/72h : EC10_{pseudomonas} putita/16h Water hazard class (DE): WGK No.: 0135

Dispersion coefficient(octanol-water): 0.05 Storage class (VCI):

0.6-20 mg RNase A (Iyo)

RNase Chemical: CAS No.: 9001-99-4

Water hazard class (DE): 13 Storage class (VCI):

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 assessment

no data available

12.6 Other adverse effects

no additional data available

SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

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



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SECTION 14: Transport information

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

or

14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture)

Α

14.3 Class: 3 14.4 Packing group: III

Road transport

FmS:

Classification code: F1

Limited Quantity: 5 L Tunnel restriction code: E Excepted Quantity: E 1 Special instructions: 640E Air transport
PAX: 355 max. weight PAX: 60 L

CAO: 366 max. weight CAO: 220 L Maritime transport

F-E. S-E

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

Storage category:

not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

MN Leaflet/User manual, also see www.mn-net.com

Look for your country-specific regulations

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
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.



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

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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/EÉC 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**

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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

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

2017-11 Adaption of ECHA Registration dossier