

# Safety Data Sheet

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

REF: 740490.250  
Printing date: 14.02.2020

NucleoSpin Plasmid Transf.-grade (250)  
Date of issue: 03.06.2019

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

### 1.1 Product identifier

REF 740490.250  
Product name NucleoSpin Plasmid Transf.-grade (250)

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 75 mL A1  
1 x 100 mL A2 (with LyseControl)  
1 x 100 mL A3  
1 x 60 mL AE  
2 x 25 mL AQ  
1 x 200 mL ERB  
1 x 25-100 mg RNase A (Iyo)

### 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  
Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
Tel.: +49 2421 969 0

**scientifix**

PO Box 662 South Yarra  
VIC 3141 Australia

[www.scientifix.com.au](http://www.scientifix.com.au)

**Free call:** 1800 007 900  
**T:** +61(0)3 8540 5900  
**F:** +61(0)3 9543 7827  
**E:** [info@scientifix.com.au](mailto:info@scientifix.com.au)

### 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

### 2.0 Classification of the complete product



GHS02 GHS07 GHS08

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

### 2.1 Classification of the substance or mixture

75 mL A1

Do not need labelling as hazardous

[www.mn-net.com](http://www.mn-net.com)

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Signal word -

No hazard class

**100 mL A2 (with LyseControl)**



GHS07

Signal word WARNING

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

**100 mL A3**



GHS07

Signal word WARNING

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

**60 mL AE**

Signal word Do not need labelling as hazardous  
-

No hazard class

**25 mL AQ**

Signal word Do not need labelling as hazardous  
-

No hazard class

**200 mL ERB**



GHS02



GHS07

Signal word WARNING

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H319	Eye Irrit. 2
H336	STOT SE 3

**25-100 mg RNase A (Iyo)**

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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 identifier(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.

### 75 mL A1

Do not need labelling as hazardous  
 Signal word: -

### 100 mL A2 (with LyseControl)



GHS07

Signal word: WARNING

### 100 mL A3



GHS07

Signal word: WARNING

### 60 mL AE

Do not need labelling as hazardous  
 Signal word: -

### 25 mL AQ

Do not need labelling as hazardous  
 Signal word: -

### 200 mL ERB



GHS02



GHS07

Signal word: WARNING

H226, H319, H336

Flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

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P210, P260D, P280sh  
 Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe vapours. Wear protective gloves/eye protection.

## 25-100 mg RNase A (Iyo)



GHS08

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. Vapour forms explosive mixtures with air. ---

**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**

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

**75 mL A1**

Chemical: *chemicals/mixture < 1%*  
 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.

CAS No.: -

**100 mL A2 (with LyseControl)**

Chemical: *sodium hydroxide solution (diluted < 2 %)*  
 Classification: H314, Skin Corr. 1B  
 Formula: NaOH•H<sub>2</sub>O  
 Pseudonym: diluted soda lye  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119457892-27-xxxx  
 EC No.: 215-185-5  
 RTECS: WB4900000  
 KE No.: KE-31487  
 Concentration: 0,5 - <1 %  
 acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

CAS No.: 1310-73-2d

Indice No.: 011-002-00-6

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Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3  
 Classification: H228, Flam. Sol. 1, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute Tox. 4 inh., H335, STOT SE 3, H412, Aquatic Chronic 3  
 Formula:  $C_{12}H_{25}NaO_4S$   
 Pseudonym: sodium lauryl sulfate, sulfuric acid monododecyl ester sodium salt  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119489461-32-xxxx  
 EC No.: 205-788-1  
 RTECS: WT1050000 MFCD: 00036175  
 KE No.: KE-21884  
 Concentration: 0,1 - <1 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *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.

### 100 mL A3

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1  
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2  
 Formula:  $CH_6ClN_3$   
 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

### 60 mL AE

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.

### 25 mL AQ

Chemical: *inorganic salts, declaration not necessary* CAS No.: -  
 Classification: No criteria for classification or naming of chemical not required.  
 Pseudonym: not hazardous  
 TSCA Inventory: all listed  
 KE No.: listed  
 Concentration: 1 - <3 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

### 200 mL ERB

Chemical: *triethanolamine* CAS No.: 102-71-6  
 Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H335, STOT SE 3  
 Formula:  $C_6H_{15}NO_3$   
 Pseudonym: 2,2',2"-nitrioltriethanol; tris(2-hydroxyethyl)amine  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119486482-31-xxxx  
**Dual-use:** The application of this chemical is exempt from the regulation 2017/2268/EU (see IC350 remark 4).  
 EC No.: 203-049-8  
 RTECS: KL9275000  
 KE No.: KE-25940  
 Concentration: 1 - <10 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

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Chemical:	2-propanol	CAS No.:	67-63-0
Classification:	H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3		
Formula:	C <sub>3</sub> H <sub>8</sub> O		
Pseudonym:	isopropanol, IPA, propan-2-ol		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119457558-25-XXXX		
EC No.:	200-661-7	Index No.:	603-117-00-0
RTECS:	NT8050000	MFCD:	00011674
KE No.:	KE-29363		
Concentration:	35 - <50 %		
acc. CLP (GHS):	H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3		

## 25-100 mg RNase A (Iyo)

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 for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

#### 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

After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must be carried out by an eye specialist. 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.

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- 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. The substance/mixture is flammable. Product package burns like paper or plastic. Cool any undamaged containers in water, and remove from the danger zone if possible. Heating will lead to an increase in pressure, and a danger of bursting.
- 5.4 Additional information**  
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## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Do not breathe vapours. Wear eye protection. Keep product away from sources of ignition - No smoking. 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**  
The original product package of MACHEREY-NAGEL allows a safe storage.  
Storage class (VCI): 3  
Water hazard class (DE): 2
- 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

### 8.1 Control parameters

<b>75 mL A1</b>		
Chemical:	<i>chemicals/mixture &lt; 1%</i>	CAS No.: -
<b>100 mL A2 (with LyseControl)</b>		
Chemical:	<i>sodium hydroxide solution</i>	CAS No.: 1310-73-2d
Chemical:	<i>dodecyl sulfate, sodium salt</i>	CAS No.: 151-21-3
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:	<i>indicator dye(s)</i>	CAS No.: -
<b>100 mL A3</b>		
Chemical:	<i>guanidine hydrochloride</i>	CAS No.: 50-01-1
DNEL:	[inh] 3.5 mg/m <sup>3</sup>	
	DNEL = Derived No-Effect Level (for workers)	
PNEC <sub>(fresh water)</sub> :	-	
	PNEC = Predicted No Effect 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

**60 mL AE**

Chemical: *chemicals/mixture < 1%*

CAS No.: -

**25 mL AQ**

Chemical: *inorganic salts, declaration not necessary*

CAS No.: -

**200 mL ERB**

Chemical: *triethanolamine*

CAS No.: 102-71-6

DNEL: [derm] 6.3; [inh] 5 mg/m<sup>3</sup>  
 DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 0.32 mg/L  
 PNEC = Predicted No Effect Concentration

TRGS 900 (DE): - DFG: 5 E mg/m<sup>3</sup>  
 E/e respirable

Short-term exposure factor: 1, (2)  
 skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: [MAK] 5 e/[STEL] 10 e mg/m<sup>3</sup>

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<sup>3</sup>  
 DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 140.9 mg/L  
 PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 200 ppm / 500 mg/m<sup>3</sup>  
 E/e respirable

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/m<sup>3</sup>

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] 400 ppm / 980 mg/m<sup>3</sup>

NIOSH STEL: 500 ppm / 1225 mg/m<sup>3</sup>  
 [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/m<sup>3</sup>

**25-100 mg RNase A (Iyo)**

Chemical: *RNase*

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 Hand protection

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 Eye protection

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

### 8.2.4 Skin protection

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.



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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**75 mL A1**

Appearance: liquid	Colour: colourless	Odor: odorless
pH: 7.5-8.5		
Specific gravity: 1.00 g/cm <sup>3</sup>		

**100 mL A2 (with LyseControl)**

Appearance: liquid	Colour: blue	Odor: odorless
pH: 13		
Specific gravity: 1.008 g/cm <sup>3</sup>		

**100 mL A3**

Appearance: liquid	Colour: colourless	Odor: acetic
pH: 4-4.5		
Specific gravity: 1.14 g/cm <sup>3</sup>		

**60 mL AE**

Appearance: liquid	Colour: colourless	Odor: odorless
pH: 8-9		
Specific gravity: 1.0 g/cm <sup>3</sup>		

**25 mL AQ**

Appearance: liquid	Colour: colourless	Odor: odorless
pH: 7.5-8		
Specific gravity: 1.01 g/cm <sup>3</sup>		

**200 mL ERB**

Appearance: liquid	Colour: colourless	Odor: alcoholic
pH: 5.5-6.5		
Flash point: 24 °C		
Solubility in water: 0-100 %		

**25-100 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**

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## 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

But avoid reactions with oxidizing agents. Note: Can form very reactive substances with oxidizing agents. No further data available.

### 10.4 Conditions to avoid

Not necessary. But can form explosive gases/vapour with air. Use only in a well-ventilated working areas. ---

### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines. Avoid storage with oxidising substances.

### 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.

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## 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.

#### 75 mL A1

Chemical: *chemicals/mixture < 1%* CAS No.: -  
 TSCA Inventory: all listed, <1%  
 Korea Exist.Chem.Inventory: listed

#### 100 mL A2 (with LyseControl)

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: listed ≥1,0%/≥1,0% SDS required  
 Korea Exist.Chem.Inventory: KE-31487  
 LD50<sub>orl rat</sub>: [ $< 1\%$ ] > 50 g/kg  
 LD50<sub>orl mus</sub>: [ $< 1\%$ ] > 4 g/kg

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3  
 TSCA Inventory: listed California Proposition 65 List: not 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  
 LD50<sub>orl rat</sub>: 1288 mg/kg  
 LC50<sub>inh rat</sub>: 3900<sub>1h</sub> mg/m<sup>3</sup>  
 LD50<sub>drm rbt</sub>: 10 g/kg

Chemical: *indicator dye(s)* CAS No.: -  
 TSCA Inventory: all listed, <1%

#### 100 mL A3

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  
 Japan CSCL/PRTR: not listed, Japan PDSCl: not listed  
 Japan ISHL: not listed  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-18111  
 LD50<sub>orl rat</sub>: 475-907 mg/kg  
 LC50<sub>ihl rat</sub>: [4h] 3181-7655 µg/m<sup>3</sup>  
 LD50<sub>drm rbt</sub>: 2000 mg/kg  
 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

#### 60 mL AE

Chemical: *chemicals/mixture < 1%* CAS No.: -  
 TSCA Inventory: all listed, <1%  
 Korea Exist.Chem.Inventory: listed

#### 25 mL AQ

Chemical: *inorganic salts, declaration not necessary* CAS No.: -  
 TSCA Inventory: all listed  
 Korea Exist.Chem.Inventory: listed

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## 200 mL ERB

Chemical: *triethanolamine* CAS No.: 102-71-6  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 Australia NICNAS: not listed Canada CEPA 1999: DSL Yes  
 Japan CSCL/PRTR: PAC Yes, Japan PDSCL: not listed  
 Japan ISHL: listed  $\geq 0,1\%$ / $\geq 0,1\%$ , Article 57-2 (SDS required)  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-25940  
 LD50<sub>orl rat</sub>: > 5000 mg/kg  
 LD50<sub>drm rbt</sub>: > 2000 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  
 Target Organs: Eyes, skin, respiratory system  
 Symptoms: irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis  
 Australia NICNAS: Canada CEPA 1999: DSL yes  
 Japan CSCL/PRTR: PAC yes, Japan PDSCL: -  
 Japan ISHL: listed  $\geq 1,0\%$ / $\geq 0,1\%$ , Article 57-2 (SDS required)  
 South Korea TCCA:  
 Korea Exist.Chem.Inventory: KE-29363  
 LD50<sub>orl rat</sub>: 5045 mg/kg  
 LC<sub>LoWorl hmn</sub>: 3570 mg/kg  
 LC50<sub>ihl rat</sub>: 16<sub>4h</sub> g/m<sup>3</sup>  
 LD50<sub>drm rbt</sub>: 12.8 g/kg  
 TRGS 905 (DE): R<sub>F</sub> C

## 25-100 mg RNase A (Iyo)

Chemical: *RNase* CAS No.: 9001-99-4  
 TSCA Inventory: listed  
 Japan CSCL/PRTR: not listed  
 Japan ISHL: not listed  
 Korea Exist.Chem.Inventory: KE-30341  
 LD50<sub>intraperitoneal rat</sub>: 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 Toxicity

Following information is valid for pure substances.

#### 75 mL A1

Chemical: *chemicals/mixture < 1%* CAS No.: -  
 Water hazard class (DE): 1  
 Storage class (VCI): 12-13

#### 100 mL A2 (with LyseControl)

Chemical: *sodium hydroxide solution* CAS No.: 1310-73-2d  
 LC50<sub>leuciscus idus/96h</sub>: 35-189 mg/L  
 LC50<sub>fish/96h</sub>: 45.4 mg/L  
 EC50<sub>daphnia/48h</sub>: >100 mg/L  
 Water hazard class (DE): nwg WGK No.: 0142  
 Storage class (VCI): 12-13

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3  
 LC50<sub>daphnia magna/48h</sub>: 6.3 mg/L  
 LC50<sub>fish/96h</sub>: 1.31-22.5 mg/L  
 Water hazard class (DE): 2  
 Dispersion coefficient<sub>(octanol-water)</sub>: 1.6  
 Storage class (VCI): 12-13

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Chemical: *indicator dye(s)* CAS No.: -  
 Storage class (VCI): 12-13

**100 mL A3**

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1  
 PNEC(fresh water) : -  
 PNEC = Predicted No Effected Concentration  
 LC50<sub>leuciscus idus/96h</sub> : 1759 mg/L  
 LC50<sub>fish/96h</sub> : [4d] 690-1850; [48h] 1758-2420 mg/L  
 EC50<sub>daphnia/48h</sub> : 70.2 mg/L  
 EC10<sub>pseudomonas putita/16h</sub> : [72h] 11.8-33.5 mg/L  
 Water hazard class (DE): 1 WGK No.: 0788  
 Storage class (VCI): 12

**60 mL AE**

Chemical: *chemicals/mixture < 1%* CAS No.: -  
 Water hazard class (DE): 1  
 Storage class (VCI): 12-13

**25 mL AQ**

Chemical: *inorganic salts, declaration not necessary* CAS No.: -  
 Water hazard class (DE): 1  
 Storage class (VCI): 12-13

**200 mL ERB**

Chemical: *triethanolamine* CAS No.: 102-71-6  
 PNEC(fresh water) : 0.32 mg/L  
 PNEC = Predicted No Effected Concentration  
 LC50<sub>fish/96h</sub> : >1000 mg/L  
 EC50<sub>daphnia/48h</sub> : >1000<sub>24h</sub> mg/L  
 Water hazard class (DE): 1 WGK No.: 0201  
 Dispersion coefficient<sub>(octanol-water)</sub> : -2.3  
 Storage class (VCI): 12

Chemical: *2-propanol* CAS No.: 67-63-0  
 PNEC(fresh water) : 140.9 mg/L  
 PNEC = Predicted No Effected Concentration  
 LC50<sub>fish/96h</sub> : 1400 mg/L  
 EC50<sub>daphnia/48h</sub> : 13.3 g/L  
 IC50<sub>scenedesmus quadricauda/72h</sub> : >1000 mg/L  
 EC10<sub>pseudomonas putita/16h</sub> : EC5: 1050 mg/L  
 Water hazard class (DE): 1 WGK No.: 0135  
 Dispersion coefficient<sub>(octanol-water)</sub> : 0.05  
 Storage class (VCI): 3

**25-100 mg RNase A (lyo)**

Chemical: *RNase* CAS No.: 9001-99-4  
 Water hazard class (DE): 1  
 Storage class (VCI): 13

**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

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## 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.

## SECTION 14: Transport information

14.1 - 14.4 Not necessary

### 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](http://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.

### 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.

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## 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, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
Regulation 1480/2018/EU, 4<sup>th</sup> 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  
Directive 1999/92/EC Minimum requirements for improving the safety and health protection of workers at risk from potentially explosive atmospheres  
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