

# Safety Data Sheet

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

REF: 740410.10

NucleoBond Xtra Midi (10)

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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 740410.10  
Product name NucleoBond Xtra Midi (10)

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 60 mL ELU  
1 x 200 mL EQU  
1 x 100 mL LYS  
1 x 100 mL NEU  
1 x 100 mL RES  
1 x 0.6-100 mg RNase A (lyo)  
1 x 100 mL WASH

### 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  
Valenciener Str. 11, 52355 Düren, GERMANY  
Tel.: +49 2421 969 0

E-mail: [sds@mn-net.com](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto: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

### 2.0 Classification of the complete product



GHS02

GHS07

GHS08

Signal word DANGER

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1

### 2.1 Classification of the substance or mixture

60 mL ELU

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GHS02

GHS07

Signal word

WARNING

**Hazard identification**

**Hazard classes/categories**

H226  
H319

Flam. Liq. 3  
Eye Irrit. 2

**200 mL EQU**

Signal word

Do not need labelling as hazardous  
-

No hazard class

**100 mL LYS**



GHS07

Signal word

WARNING

**Hazard identification**

**Hazard classes/categories**

H315  
H319

Skin Irrit. 2  
Eye Irrit. 2

**100 mL NEU**

Signal word

Do not need labelling as hazardous  
-

No hazard class

**100 mL RES**

Signal word

Do not need labelling as hazardous  
-

No hazard class

**0.6-100 mg RNase A (Iyo)**



GHS08

Signal word

DANGER

**Hazard identification**

**Hazard classes/categories**

H334

Resp. Sens. 1

**100 mL WASH**

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GHS02  
WARNING

Signal word	WARNING
<b>Hazard identification</b>	<b>Hazard classes/categories</b>
H226	Flam. Liq. 3

## 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.

### 60 mL ELU



GHS02 GHS07  
Signal word: WARNING

### 200 mL EQU

Do not need labelling as hazardous  
Signal word: -

### 100 mL LYS



GHS07  
Signal word: WARNING

### 100 mL NEU

Do not need labelling as hazardous  
Signal word: -

### 100 mL RES

Do not need labelling as hazardous  
Signal word: -

### 0.6-100 mg RNase A (Iyo)



GHS08  
Signal word: DANGER

H334  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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P261sh, P342+311

Avoid breathing dust/vapours. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

## 100 mL WASH



GHS02

Signal word: WARNING

## 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 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

#### 60 mL ELU

Chemical:	<i>2-propanol</i>	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	Indice No.:	603-117-00-0
RTECS:	NT8050000	MFC D:	00011674
KE No.:	KE-29363		
Concentration:	10 - <15 %		
acc. CLP (GHS):	H226, Flam. Liq. 3, H319, Eye Irrit. 2		

Chemical:	<i>potassium chloride</i>	CAS No.:	7447-40-7
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	KCl		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119539416-36-xxxx		
EC No.:	231-211-8		
RTECS:	TS8050000	MFC D:	00011360
KE No.:	KE-29086		
Concentration:	1 - <10 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

Chemical:	<i>chemicals/mixture &lt; 1%</i>	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.		

#### 200 mL EQU



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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

### 100 mL WASH

Chemical: *ethanol* (diluted < 20 %) CAS No.: 64-17-5d  
 (denatured with 1%IPA/1%MEK, acc.2016/1867/EU)  
 Classification: H225, Flam. Liq. 2  
 Formula: C<sub>2</sub>H<sub>6</sub>O; C<sub>2</sub>H<sub>5</sub>OH  
 Pseudonym: ethyl alcohol, methylated spirit  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119457610-43-xxxx  
 EC No.: 200-578-6  
 RTECS: KQ6300000  
 KE No.: KE-13217  
 Concentration: 5 - <20 %  
 acc. CLP (GHS): H226, Flam. Liq. 3

Indice No.: 603-002-00-5  
 MFCD: 00003568

Chemical: *potassium chloride* CAS No.: 7447-40-7  
 Classification: No criteria for classification or naming of chemical not required.  
 Formula: KCl  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119539416-36-xxxx  
 EC No.: 231-211-8  
 RTECS: TS8050000  
 KE No.: KE-29086  
 Concentration: 1 - <10 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

MFCD: 00011360

### 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. ---

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## 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

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## 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

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## 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

#### 60 mL ELU

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 sorptive (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

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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>

Chemical: *potassium chloride* CAS No.: 7447-40-7

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

**200 mL EQU**  
 Chemical: *potassium chloride* CAS No.: 7447-40-7

**100 mL LYS**  
 Chemical: *sodium hydroxide solution* CAS No.: 1310-73-2d

Chemical: *dodecyl sulfate, sodium salt* 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: *indicator dye(s)* CAS No.: -

**100 mL NEU**  
 Chemical: *acetate buffer solution* CAS No.: -

**100 mL RES**  
 Chemical: *chemicals/mixture < 1%* CAS No.: -

**0.6-100 mg RNase A (Iyo)**  
 Chemical: *RNase* CAS No.: 9001-99-4

**100 mL WASH**  
 Chemical: *ethanol* CAS No.: 64-17-5d

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.96 mg/L  
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 200 ppm / 380 mg/m<sup>3</sup>  
E/e respirable

Short-term exposure factor: 4 (II), Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>  
 NIOSH: [TWA] 1000 ppm / 1900 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: 1000 ppm / 1900 mg/m<sup>3</sup>

Chemical: *potassium chloride* CAS No.: 7447-40-7

## 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



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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

<b>60 mL ELU</b>		
Appearance: liquid	Colour: colourless	Odor: alcoholic
pH:	8.5-9.5	
Flash point:	30 °C	
Specific gravity:	1.04 g/cm <sup>3</sup>	
<b>200 mL EQU</b>		
Appearance: liquid	Colour: colourless	Odor: odorless
pH:	6-7	
Specific gravity:	1.05 g/cm <sup>3</sup>	
<b>100 mL LYS</b>		
Appearance: liquid	Colour: blue	Odor: odorless
pH:	13	
Specific gravity:	1.008 g/cm <sup>3</sup>	
<b>100 mL NEU</b>		
Appearance: liquid	Colour: colourless	Odor: acetic
pH:	4-5	
Flash point:	63 °C	
Specific gravity:	1.19 g/cm <sup>3</sup>	
<b>100 mL RES</b>		
Appearance: liquid	Colour: colourless	Odor: odorless
pH:	7.5 - 8.5	
Specific gravity:	1.01 g/cm <sup>3</sup>	
<b>0.6-100 mg RNase A (lyo)</b>		
Appearance: solid (lyoph.)	Colour: colourless	Odor: odorless
Solubility in water:	0-100 %	
<b>100 mL WASH</b>		
Appearance: liquid	Colour: colourless	Odor: alcoholic
pH:	6.5 - 7.5	
Flash point:	31 °C	
Specific gravity:	1.04 g/cm <sup>3</sup>	

- 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**

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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.

**60 mL ELU**

Chemical:	<i>2-propanol</i>	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 ≥1,0%/≥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		

Chemical:	<i>potassium chloride</i>	CAS No.:	7447-40-7
TSCA Inventory:	listed		
Korea Exist.Chem.Inventory:	KE-29086		
LD50 <sub>orl rat</sub> :	2600 mg/kg		

Chemical:	<i>chemicals/mixture &lt; 1%</i>	CAS No.:	-
TSCA Inventory:	all listed, <1%		
Korea Exist.Chem.Inventory:	listed		

**200 mL EQU**

Chemical:	<i>potassium chloride</i>	CAS No.:	7447-40-7
TSCA Inventory:	listed		
Korea Exist.Chem.Inventory:	KE-29086		
LD50 <sub>orl rat</sub> :	2600 mg/kg		

**100 mL LYS**

Chemical:	<i>sodium hydroxide solution</i>	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>drm rbt</sub> :	not applicable		
LD50 <sub>orl mus</sub> :	[< 1%] > 4 g/kg		



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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 NEU

Chemical: *acetate buffer solution* CAS No.: -  
 TSCA Inventory: all listed  
 Korea Exist.Chem.Inventory: listed

## 100 mL RES

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

## 0.6-100 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.

## 100 mL WASH

Chemical: *ethanol* CAS No.: 64-17-5d  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 ACGIH: 1000 ppm  
 Exposure Routes: inhalation, ingestion, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system  
 Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough; liver damage; anemia; reproductive, teratogenic  
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes  
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed  
 Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-13217  
 LD50<sub>orl rat</sub>: 6200 mg/kg  
 LC<sub>Lowihl gpg</sub>: 21.9 g/m<sup>3</sup>  
 LC<sub>Loworl hmn</sub>: 1400 mg/kg  
 LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup>  
 LC50<sub>ihl rat</sub>: [10h] 20 g/m<sup>3</sup>  
 LD50<sub>drm rbt</sub>: 20 000 mg/kg  
 LD50<sub>oral mouse</sub>: 3450 mg/kg  
 TRGS 905 (DE): K5, M5, R<sub>F</sub> C

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Chemical: *potassium chloride*      CAS No.: 7447-40-7  
 TSCA Inventory: listed  
 Korea Exist.Chem.Inventory: KE-29086  
 LD50<sub>orl rat</sub>: 2600 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 60 mL ELU

Chemical: *2-propanol*      CAS No.: 67-63-0  
 PNEC<sub>(fresh water)</sub>: 140.9 mg/L  
 PNEC = Predicted No Effect 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 putida/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

Chemical: *potassium chloride*      CAS No.: 7447-40-7  
 Water hazard class (DE): 1  
 Storage class (VCI): 12-13

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

#### 200 mL EQU

Chemical: *potassium chloride*      CAS No.: 7447-40-7  
 Water hazard class (DE): 1  
 Storage class (VCI): 12-13

#### 100 mL LYS

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

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

#### 100 mL NEU

Chemical: *acetate buffer solution*      CAS No.: -  
 Storage class (VCI): 12

#### 100 mL RES

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



# Safety Data Sheet

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

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## 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.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 16.1.2 List of relevant P phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261sh	Avoid breathing dust/vapours.
P280sh	Wear protective gloves/eye protection.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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

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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

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

#### Revisions/Updates

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