

# Safety Data Sheet

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 740235.10  
 Product name NucleoSpin Microbial DNA (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 6 mL B5  
 1 x 13 mL BE  
 1 x 6 mL BW  
 1 x 120 µL Liquid Proteinase K  
 1 x 10 mL MG  
 10 x 1 Bead Tube Type B (glass beads)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses**  
 Product for analytical use.  
 Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0  
 The exposure scenario is integrated into sections 1-16.

**Uses advised against**  
 not described

### 1.3 Details of the supplier of the safety data sheet

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

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

### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.  
 DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product



GHS02 GHS07

Signal word WARNING

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2
H336	STOT SE 3
H412	Aquatic Chronic 3

### 2.1 Classification of the substance or mixture

6 mL B5

Do not need labelling as hazardous

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Signal word -  
 No hazard class

**13 mL BE**

Signal word Do not need labelling as hazardous  
 -  
 No hazard class

**6 mL BW**



GHS02 GHS07

Signal word WARNING

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

**120 µL Liquid Proteinase K**

Signal word Do not need labelling as hazardous  
 -  
 No hazard class

**10 mL MG**



GHS07

Signal word WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H412	Aquatic Chronic 3

**1 Bead Tube Type B (glass beads)**

Signal word Do not need labelling as hazardous  
 -  
 No hazard class

## 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).  
 The irritant hazard should be eliminated, because of buffer chemicals inside.

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## 6 mL B5

Do not need labelling as hazardous  
Signal word: -

## 13 mL BE

Do not need labelling as hazardous  
Signal word: -

## 6 mL BW



GHS02 GHS07

Signal word: WARNING

## 120 µL Liquid Proteinase K

Do not need labelling as hazardous  
Signal word: -

## 10 mL MG



GHS07

Signal word: WARNING

H412  
Harmful to aquatic life with long lasting effects.

## 1 Bead Tube Type B (glass beads)

Do not need labelling as hazardous  
Signal word: -

## 2.3 Other hazards

### Possible hazards from physicochemical properties

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

### Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities.  
Kit contains small amounts of enzymes: In liquid form no hazard H334. -

### Information pertaining to particular risks to the environment

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.

**PBT:** not applicable

**vPvB:** not applicable

### Other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 6 mL B5

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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.

**13 mL BE**

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.

**6 mL BW**

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1  
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2  
 Formula: CH<sub>6</sub>ClN<sub>3</sub>  
 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<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 MFCD: 00011674  
 KE No.: KE-29363  
 Concentration: 20 - <35 %  
 acc. CLP (GHS): H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3

**120 µL Liquid Proteinase K**

Chemical: *proteinase K, liquid (origin: tritirachium album)* CAS No.: 39450-01-61  
 Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1  
 Formula: Enzyme Comm. No. 3.4.21.64, origin: tritirachium album  
 TSCA Inventory: listed (CAS 102925-54-2)  
 EC No.: 254-457-8 Indice No.: 647-014-00-9  
 RTECS: - MFCD: 00132129  
 KE No.: not listed  
 Concentration: 1 - <3 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *glycerole* CAS No.: 56-81-5  
 Classification: No criteria for classification or naming of chemical not required.  
 Formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>  
 Pseudonym: glycerin, 1,2,3-propanetriol  
 TSCA Inventory: listed (1,2,3-Propanetriol)  
 REACH Reg. No.: 01-2119471987-18-xxxx  
 EC No.: 200-289-5 Indice No.: n/a  
 RTECS: MA8050000 MFCD: 00004722  
 KE No.: KE-29297  
 Concentration: 50 - <80 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

**10 mL MG**



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Chemical:	<i>guanidinium thiocyanate</i>	CAS No.:	593-84-0
Classification:	H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1B, H332, Acute Tox. 4 inh., H412, Aquatic Chronic 3		
Formula:	$C_2H_6N_4S$		
Pseudonym:	guanidine rhodanide		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2120735072-65-0001		
EC No.:	209-812-1	Indice No.:	615-004-00-3
RTECS:	XL1225000	MFCID:	00013027
KE No.:	not listed		
Concentration:	30 - <45 %		
acc. CLP (GHS):	H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3		

## 1 Bead Tube Type B (glass beads)

Chemical:	<i>glass particles</i>	CAS No.:	-
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	$(SiO_2)_x$		
TSCA Inventory:	listed (CAS 65997-17-3)		
Concentration:	80 - <100 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

## 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

#### 4.1.1 After SKIN Contact

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

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

#### 4.1.4 After ORAL Intake

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

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

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### 4.3 Indication of any immediate medical attention and special treatment needed

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## 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.

### 6.2 Environmental precautions

not necessary, contains only small amounts of these substances

### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent.  
Collect small amounts of leaked liquid and flush with water into drains.

### 6.4 Reference to other sections

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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.

### 7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 3

Water hazard class (DE): 3

#### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

### 7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 6 mL B5

Chemical: *chemicals/mixture < 1%*

CAS No.: -

#### 13 mL BE

Chemical: *chemicals/mixture < 1%*

CAS No.: -

#### 6 mL BW

Chemical: *guanidine hydrochloride*

CAS No.: 50-01-1

DNEL: [inh] 3.5 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sup>(fresh water)</sup>: -  
PNEC = Predicted No Effect Concentration

NIOSH: not listed

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed

Chemical: *2-propanol*

CAS No.: 67-63-0

DNEL: [inh] 500 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sup>(fresh water)</sup>: 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

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OSHA: [TWA] 400 ppm / 980 mg/m<sup>3</sup>**120 µL Liquid Proteinase K**Chemical: *proteinase K, liquid (origin: tritirachium album)*

CAS No.: 39450-01-61

SUVA(CH) MAK value: 0,00006<sub>15min</sub> mg/m<sup>3</sup>Chemical: *glycerole*

CAS No.: 56-81-5

DNEL: [inh] 56 mg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)PNEC<sub>(fresh water)</sub>: 0.885 mg/L  
PNEC = Predicted No Effect ConcentrationTRGS 900 (DE): 200 E mg/m<sup>3</sup>  
E/e respirableShort-term exposure factor: 2 (I), Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excludedSUVA(CH) MAK value: 50 e\* mg/m<sup>3</sup>**10 mL MG**Chemical: *guanidinium thiocyanate*

CAS No.: 593-84-0

DNEL: [inh] 1092 µg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)PNEC<sub>(fresh water)</sub>: 42.4 µg/L  
PNEC = Predicted No Effect ConcentrationNIOSH: 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

**1 Bead Tube Type B (glass beads)**Chemical: *glass particles*

CAS No.: -

**8.2 Exposure controls**

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

**8.2.1 Respiratory protection**

No additional recommendations.

**8.2.2 Hand protection**

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, 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.

**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****6 mL B5**

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	7-8	
Specific gravity:	1.00 g/cm <sup>3</sup>	

**13 mL BE**

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

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**6 mL BW**

Appearance: liquid	Colour: colourless	Odor: alcoholic
pH: 7-8		
Flash point: 25 °C		
Specific gravity: 1.06 g/cm <sup>3</sup>		

**120 µL Liquid Proteinase K**

Appearance: liquid	Colour: colourless	Odor: odorless
pH: 7-8		
Specific gravity: 1.1 g/cm <sup>3</sup>		
Solubility in water: 0-100 %		

**10 mL MG**

Appearance: liquid	Colour: slightly yellow	Odor: odorless
pH: 6.5-7.5		

**1 Bead Tube Type B (glass beads)**

Appearance: powder (solid)	Colour: colourless	Odor: odorless
Particle size: 40-400 µm		

**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**

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

**10.4 Conditions to avoid**

Not necessary. ---

**10.5 Incompatible materials**

Avoid contact with strong acids or alkalines.

**10.6 Hazardous decomposition products**

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

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

**6 mL B5**

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

**13 mL BE**

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



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## 6 mL BW

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.

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 ≥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

## 120 µL Liquid Proteinase K

Chemical: *proteinase K, liquid (origin: tritirachium album)* CAS No.: 39450-01-61  
 TSCA Inventory: listed (CAS 102925-54-2)  
 Japan CSCL/PRTR: not listed  
 Japan ISHL: not listed  
 Korea Exist.Chem.Inventory: not listed

Chemical: *glycerole* CAS No.: 56-81-5  
 TSCA Inventory: listed (1,2,3-Propanetriol)  
 Exposure Routes: inhalation, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system, kidneys  
 Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury  
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed  
 Japan ISHL: not listed  
 Korea Exist.Chem.Inventory: KE-29297  
 LD50<sub>orl rat</sub>: 12.6 g/kg  
 LD50<sub>drm rbt</sub>: >18.7 g/kg  
 TRGS 905 (DE): R<sub>F</sub> C

## 10 mL MG

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes  
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed  
 Japan ISHL: not listed  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: not listed  
 LD50<sub>orl rat</sub>: 593 mg/kg  
 LC50<sub>drm rbt</sub>: >2000 mg/m<sup>3</sup>  
 LC50<sub>ihl rat</sub>: [4h] 5.319 mg/L  
 LD50<sub>ipr mus</sub>: 300 mg/kg  
 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

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## 1 Bead Tube Type B (glass beads)

Chemical: *glass particles*  
TSCA Inventory: listed (CAS 65997-17-3)

CAS No.: -

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 6 mL B5

Chemical: *chemicals/mixture < 1%*  
Water hazard class (DE): 1  
Storage class (VCI): 12-13

CAS No.: -

#### 13 mL BE

Chemical: *chemicals/mixture < 1%*  
Water hazard class (DE): 1  
Storage class (VCI): 12-13

CAS No.: -

#### 6 mL BW

Chemical: *guanidine hydrochloride*  
PNEC<sub>(fresh water)</sub>: -  
PNEC = Predicted No Effect 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

CAS No.: 50-01-1

Chemical: *2-propanol*  
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 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

CAS No.: 67-63-0

#### 120 µL Liquid Proteinase K

Chemical: *proteinase K, liquid (origin: tritirachium album)*  
Water hazard class (DE): 1  
Storage class (VCI): 13

CAS No.: 39450-01-61

Chemical: *glycerole*  
PNEC<sub>(fresh water)</sub>: 0.885 mg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub>: >5000<sub>24h</sub> mg/L  
EC50<sub>daphnia/48h</sub>: >10<sub>24h</sub> g/L  
IC50<sub>scenedesmus quadricauda/72h</sub>: IC50<sub>7d</sub> >10 g/L  
EC10<sub>pseudomonas putita/16h</sub>: EC5: >10 g/L  
Water hazard class (DE): 0  
Dispersion coefficient<sub>(octanol-water)</sub>: -1.76  
Storage class (VCI): 10

CAS No.: 56-81-5

#### 10 mL MG

Chemical: *guanidinium thiocyanate*  
Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.  
Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).  
PNEC<sub>(fresh water)</sub>: 42.4 µg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub>: [4d] 89.1 mg/L  
EC50<sub>daphnia/48h</sub>: 42.4 mg/L

CAS No.: 593-84-0

www.mn-net.com

# Safety Data Sheet

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

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IC50scenedesmus quadricauda/72h : 130 mg/L  
 EC10pseudomonas putita/16h : [10d] 200 mg/L  
 Water hazard class (DE): 3  
 Dispersion coefficient(octanol-water) : [pH 5.1] -1.11  
 Storage class (VCI): 12

## 1 Bead Tube Type B (glass beads)

Chemical: *glass particles*  
 Storage class (VCI): 12-13

CAS No.: -

### 12.2 Persistence and degradability

not necessary

### 12.3 Bioaccumulative potential

not necessary

### 12.4 Mobility in soil

not necessary

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

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

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

### 13.1 Waste treatment methods

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

## SECTION 14: Transport information

UN 1993 class 3 III, **Excepted Quantities** ( $\leq 30 \text{ mL} / \Sigma \leq 1 \text{ L}$ ) = ADR/ IATA E1

or

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

**14.3 Class:** 3 **14.4 Packing group:** III

*Road transport*

Classification code: F1

Limited Quantity: 5 L

Excepted Quantity: E 1

*Air transport*

PAX: 355

CAO: 366

*Maritime transport*

EmS: F-E, S-E

Tunnel restriction code: E

Special instructions: 640E

max. weight PAX: 60 L

max. weight CAO: 220 L

Storage category: A

### 14.5 Environmental hazards

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

### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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## 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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

#### 16.1.2 List of relevant P phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260D	Do not breathe vapours.
P264W	Wash with water thoroughly after handling.
P273	Avoid release to the environment.
P280sh	Wear protective gloves/eye protection.
P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.

### 16.2 Training advice

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

### 16.3 Recommended restriction on use

Only for professional user.  
 An individual package of this product or test kit has a moderate hazardous potential.

### 16.4 Further information

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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  
 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