

# **Safety Data Sheet**

## **SDS acc. Hazard Communication Standard**

 REF: 740779
 NucleoSpin 8 Soil (12x8)
 Page: 1/17

 Printing Date: 04.04.2023
 Date of Issue: 03.03.2023
 Version: 2.3.7.11

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

# 1.1 Product Identifier / Product Name

REF 740779 Product Name NucleoSpin 8 Soil (12x8)

> 1 x 100 mL SW2 1 x 60 mL SE 1 x 150 mL SL1 1 x 150 mL SL2 1 x 50 mL SL3 1 x 50 mL SX 1 x 250 mL SB 1 x 125 mL SW1

192 x 1 Bead Tube Type A

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

1.2

## 1.3 Details of the Supplier and of the Safety Data Sheet

## Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany

Phone: +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. USA: American Association Of Poison Control Centers

Rockville, MD 20857. tel. 1-800-222-1222, <a href="https://www.poisonhelp.org">https://www.poisonhelp.org</a>

DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730
<a href="https://www.ggiz-erfurt.de">https://www.ggiz-erfurt.de</a>

You find our current versions of SDS in Internet:

<a href="http://www.mn-net.com/SDS">http://www.mn-net.com/SDS></a>

UFI: V8PV-K3MC-S20H-ES6Y

UFI: 1A6V-H3H9-G20E-ACTR UFI: MMPT-631A-V206-GNTN

## **SECTION 2: Hazard(s) 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
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H336	STOT SE 3
H412	Aquatic Chronic 3



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## 2.1 Classification of the substance or mixture

150 mL SL2

Do not need labelling as hazardous

No Hazard Class

Signal Word

125 mL SW1





GHS02

GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Categori
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H336	STOT SE 3

250 mL SB



GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Catego
H302	Acute Tox. 4 oral
H412	Aquatic Chronic 3

50 mL SX



GHS07

Signal Word WARNING

Hazard IdentificationHazard Classes/CategoriesH319Eye Irrit. 2

60 mL SE

Do not need labelling as hazardous Signal Word -

No Hazard Class

100 mL SW2

Do not need labelling as hazardous



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Signal Word

No Hazard Class

50 mL SL3

Do not need labelling as hazardous

Signal Word

No Hazard Class

150 mL SL1

Do not need labelling as hazardous

Signal Word

No Hazard Class

1 Bead Tube Type A

Do not need labelling as hazardous

Signal Word -

No Hazard Class

List of H phrases: see section 16.2

## 2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

According the implementation of GHS immediate packages only must be labelled with product identificator(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012). 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) / **until 100 mL** (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A.

150 mL SL2

Do not need labelling as hazardous Signal Word: -

125 mL SW1





GHS02

2 0

Signal Word: WARNING

250 mL SB



GHS07

Signal Word: WARNING

H302, H412

Harmful if swallowed. Harmful to aquatic life with long lasting effects.

P264W, P273, P301+312, P330

Wash with water thoroughly after handling.IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.Avoid release to the environment.Rinse mouth.

50 mL SX





Software: M2 V 6.1.1.5

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Signal Word: WARNING

60 mL SE

Do not need labelling as hazardous Signal Word: -

Signal Word.

100 mL SW2

Do not need labelling as hazardous

Signal Word: -

50 mL SL3

Do not need labelling as hazardous

Signal Word: -

150 mL SL1

Do not need labelling as hazardous

Signal Word: -

1 Bead Tube Type A

Do not need labelling as hazardous

Signal Word: -

## Label elements of the complete product





GHS02

GHS07

Signal Word: WARNING

H302, H412

Harmful if swallowed. Harmful to aquatic life with long lasting effects.

P264W, P273, P301+312, P330

Wash with water thoroughly after handling.IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.Avoid release to the environment.Rinse mouth.

# 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.

## 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

Possible endocrine disrupting effects

data not available

## **SECTION 3: Composition/Information on Ingredients**

## 3.1 Substances or 3.2 Mixtures

125 mL SW1

Substance name: 2-propanol CAS No.: 67-63-0

Substance rating: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3

Chemical Formula: C<sub>3</sub>H<sub>8</sub>O

Synonyms (de): Isopropanol, IPA, Propan-2-ol REACH Reg. No.: 01-2119457558-25-XXXX

EC No.: 200-661-7 Indice No.: 603-117-00-0 Concentration: 20 - <35 %

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



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> Substance name: guanidine hydrochloride

CAS No.: 50-01-1

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

Chemical Formula: CH<sub>6</sub> CIN<sub>3</sub>

Synonyms (de): Guanidiniumchlorid REACH Reg. No.: 01-2119977063-35-0005

607-148-00-0 EC No.: 200-002-3 Indice No.:

Concentration: 36 - <50 % acc. GHS: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

50 mL SX

Substance name: ethylendinitrilo tetraacetic acid (EDTA)

CAS No.: 60-00-4

Substance rating: H319, Eye Irrit. 2 Chemical Formula: C 10 H 16 N 2 O 8

Synonyms (de): Ethylendiamintetraessigsäure, Titriplex® II

REACH Reg. No.: 01-2119486399-18-xxxx

Concentration: 10 - < 25 % acc. GHS: H319, Eye Irrit. 2

150 mL SL2

Substance name: sodium acetate CAS No .: 127-09-3

Substance rating: No criteria for classification or naming of chemical is not required.

Chemical Formula: C<sub>2</sub>H<sub>3</sub>NaO<sub>2</sub> Synonyms (de): NaAc, E262a

REACH Reg. No.: 01-2119485123-42-0007

204-823-8 EC No.: Concentration: 1 - <10 %

acc. GHS: The criteria for classification are not fulfilled

100 mL SW2

Substance name: chemicals/mixture until 1%

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

0,1 - <1 % Concentration:

acc. GHS: The criteria for classification are not fulfilled

60 ml SF

Substance name: chemicals/mixture until 1%

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required. 0.1 - < 1%

Concentration:

acc. GHS: The criteria for classification are not fulfilled

150 mL SL1

Substance name: chemicals/mixture until 2% CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

Concentration: 1 - < 2 %

acc. GHS: The criteria for classification are not fulfilled

1 Bead Tube Type A

Substance name: Ceramic particles

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

Concentration: 95 - <100 %

acc. GHS: The criteria for classification are not fulfilled



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50 mL SL3

Substance name: acetate buffer solution

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

Chemical Formula: CH 3 COOH/K/Na•H 2 O

Concentration: 45 - <60 %

acc. GHS: The criteria for classification are not fulfilled.

250 mL SB

Substance name: guanidinium thiocyanate

CAS No.: 593-84-0

Substance rating: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1C, H332, Acute Tox. 4 inh.,

H412, Aquatic Chronic 3

Chemical Formula: C<sub>2</sub>H<sub>6</sub>N<sub>4</sub>S

Synonyms (de): Guanidiniumrhodanid REACH Reg. No.: 01-2120735072-65-0001

EC No.: 209-812-1 Indice No.: 615-004-00-3

Concentration: 45 - <60 %

acc. GHS: H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3

## 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of Hazard and Precaution phrases: see section 16.2.

## **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 Vapors

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

4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested.

## 4.2 Most important Symptoms and Effects, both acute and delayed

## 4.3 Indication of any immediate Medical Attention and Special Treatment needed

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## **SECTION 5: Fire-Fighting Measures**

## 5.1 Extinguishable Media

5.1.1 Suitable 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.

5.1.2 Unsuitable extinguishing media

data not available

## 5.2 Special Hazards arising from the Substance or Mixture

WARNING: Flammable. May form explosive vapor-air mixtures. Formation of hazardous and caustic vapor-air mixtures possible.



Software: M2 V 6.1.1.5

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### 5.3 Advice for Firefighters

No, for listed product. Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

#### 5.4 Additional Information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances.

## **SECTION 6: Accidental Release Measures**

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Do not breathe vapors. Wear suitable protective gloves (see 8.2.2). 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

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

PBT: not applicable vPvR: not applicable

### 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 hazards. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into sewer.

### 6.4 Reference to other Sections

see information in section 5.4,7,8 and 13

## 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 allows a safe storage. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): Water hazard class (DE): 3

### Requirements for stock rooms and containers 7.2.1

Keep original product packages tightly closed during handling and storage.

### Specific End Use(s) 7.3

Product for analytical use.

## **SECTION 8: Exposure Controls/Personal Protection**

### 8.1 **Control Parameters**

125 mL SW1

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

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

NIOSH: [TWA] 400 ppm / 980 mg/m<sup>3</sup>

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/m<sup>3</sup>

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

DNEL: [inh] 3.5 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water) - PNEC = Predicted No Effected 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



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OSHA: not listed

50 mL SX

Chemical: ethylendinitrilo tetraacetic acid (EDTA) CAS No.: 60-00-4

DNEL: 1.5 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.2 mg/L PNEC = Predicted No Effected Concentration

150 mL SL2

Chemical: sodium acetate CAS No.: 127-09-3

100 mL SW2

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

60 mL SE

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

150 mL SL1

Chemical: chemicals/mixture until 2% CAS No.: -

1 Bead Tube Type A

Chemical: Ceramic particles CAS No.: -

50 mL SL3

Chemical: acetate buffer solution CAS No.: -

250 mL SB

Chemical: guanidinium thiocyanate CAS No.: 593-84-0 DNEL: [inh] 1092 µg/m³

NEL: [inh] 1092 μg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC <sub>(fresh water)</sub>: 42.4 µg/L

PNEC = Predicted No Effected Concentration
NIOSH:
not listed

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

## 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 Skin protection / Hand protection

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

## 8.2.3 Eye / Face Protection

Yes, Splash Goggles.

## 8.2.4 Skin Protection

Recommended to avoid contamination with these hazards.

## 8.2.5 Hygiene Measures

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.

## 8.2.6 Thermal hazards

data not available



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### 8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

## **SECTION 9: Physical and Chemical Properties**

## 9.1 Information on Basic Physical and Chemical Properties

125 mL SW1 a) State of aggregation: b) Color: colorless c) Odor: alcoholic d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available  $25~^{\circ}C$ h) Flash Point:

i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 7-8

I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient <sub>(o/w)</sub>: data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: 1.06 g/cm<sup>3</sup> q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

## 50 mL SX

a) State of aggregation: liquid b) Color: colorless c) Odor: odorless d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available 7-8 ḱ) pH Value: I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available

o) Vapor Pressure (68°F): data not available p) Specific Gravity: q) Relative Vapor Density (air=1): data not available data not available r) Particle Size: data not available

## 150 mL SL2

a) State of aggregation: liquid b) Color: colorless c) Odor: odorless d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: data not available I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: 1.02 g/cm<sup>3</sup> q) Relative Vapor Density (air=1): data not available r) Particle Size:



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data not available



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## 100 mL SW2

liquid a) State of aggregation: b) Color: colorless c) Odor: odorless d) Melting Point: e) Boiling Point: data not available data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 7-8 I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: 1.00 g/cm<sup>3</sup> q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

## 60 mL SE

a) State of aggregation: liquid b) Color: colorless c) Odor: odorless d) Melting Point: 0°C e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 8-9 I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: 1.0 g/cm<sup>3</sup> q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

## 150 mL SL1

a) State of aggregation: liauid b) Color: colorless c) Odor: odorless d) Melting Point: data not available e) Boiling Point: f) Flammability: data not available data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: data not available I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available 1.02 g/cm³ p) Specific Gravity: q) Relative Vapor Density (air=1): data not available r) Particle Size:



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1 Bead Tube Type A

a) State of aggregation: solid b) Color: white c) Odor: odorless d) Melting Point: data not available e) Boiling Point: f) Flammability: data not available data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: data not available I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: data not available q) Relative Vapor Density (air=1): data not available r) Particle Size: 0.6-0.8 mm

50 mL SL3 a) State of aggregation: liquid colorless b) Color: c) Odor: acetic d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): h) Flash Point: data not available data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 5-6 I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: q) Relative Vapor Density (air=1): 1.19 g/cm<sup>3</sup> data not available r) Particle Size: data not available

## 250 mL SB

a) State of aggregation: liquid b) Color: colorless c) Odor: odorless d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 6.5-7.5 I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity 1.13 g/cm<sup>3</sup> q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

## 9.2 Further Information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups** 



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# **Safety Data Sheet**

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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** 

Can form very reactive substances with oxidizing agents. Possibility: &H:EUH031& No further data available.

10.4 Conditions to avoid

No more required.

10.5 **Incompatible Materials** 

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 chemicals. Quantitative data on the toxicity of this product are not available.

125 mL SW1

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

TSCA Inventory: 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

California Prop. 65 List: not listed

Canada CEPA 1999: DSL yes LD50 orl rat: 5045 mg/kg 3570 mg/kg LC Low orl hmn 25 mg/L/4H LC50 ihl rat:

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

TSCA Inventory: California Prop. 65 List: not listed listed

Canada CEPA 1999: DSL yes LD50 orl rat: 475-907 mg/kg 3181-7655 µg/m<sup>3</sup>/4H LC50 ihl rat:

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

50 mL SX

Chemical: ethylendinitrilo tetraacetic acid (EDTA) CAS No.: 60-00-4

TSCA Inventory:

LD50 orl rat : 2000-4500 mg/kg

150 mL SL2

Chemical: sodium acetate CAS No.: 127-09-3

TSCA Inventory: listed

LD50 orl rat: 3530 mg/kg

100 mL SW2

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

TSCA Inventory: all listed, <1%

60 mL SE

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

TSCA Inventory: all listed, <1%

150 mL SL1



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> Chemical: chemicals/mixture until 2% CAS No .: -

TSCA Inventory: all listed. <2%

1 Bead Tube Type A

Ceramic particles CAS No .: -Chemical:

TSCA Inventory: not applicable

50 mL SL3

Chemical: acetate buffer solution CAS No .: -

TSCA Inventory: all listed

250 mL SB

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

California Prop. 65 List: not listed TSCA Inventory: listed

Canada CEPA 1999: DSL yes LD50 orl rat: 593 mg/kg 5,319 mg/L/4H LC50 ihl rat:

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

#### 11.2 Other Hazards

Possible endocrine disrupting effects

data not available

Other Information

no additional data available

# **SECTION 12: Ecological Information**

### 12.1 **Toxicity**

Following information is valid for pure chemicals.

125 mL SW1

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 13.3 g/L EC50 daphnia/48h: IC50 scenedesmus quadricauda/72h: >1000 mg/L EC10 pseudomonas putita/16h EC5: 1050 mg/L

Partition Coefficient (o/w):

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

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:

50 mL SX

ethylendinitrilo tetraacetic acid (EDTA) CAS No.: 60-00-4 Chemical:

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.2 mg/L

LC50 daphnia magna/48h: [48h] 140 mg/L [4d] 41-1592 mg/L LC50 fish/96h: [24h] 480-790 mg/L EC50 daphnia/48h: EC10 pseudomonas putita/16h: [72h] 2.77-1000 mg/L

Partition Coefficient (o/w): -5,01-0,13

150 mL SL2

Chemical: sodium acetate CAS No.: 127-09-3

100 mL SW2



Software: M2 V 6.1.1.5

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# **Safety Data Sheet**

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> Chemical: chemicals/mixture until 1% CAS No .: -

60 mL SE

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

150 ml SI 1

Chemical: chemicals/mixture until 2% CAS No.: -

1 Bead Tube Type A

Chemical: Ceramic particles CAS No .: -

50 mL SL3

Chemical: acetate buffer solution CAS No .: -

250 mL SB

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

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

Environmental hazards must not be labelled with P phrases until 125 mL (EU-CLP 1272/2008 Annex I - 1.5.2).

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 42.4 µg/L

LC50 fish/96h: [4d] 89.1 mg/L EC50 daphnia/48h: 42.4 mg/L 130 mg/L IC50 scenedesmus quadricauda/72h: [10d] 200 mg/L EC10 pseudomonas putita/16h: Partition Coefficient (o/w): -1,11 pH 5.1

### 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

## 12.6 **Endocrine disrupting properties**

data not available

### 12.7 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 (RCRA Code D002/D003, EU 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. UN/NA: 14.2. Proper Shipping Name: Flammable liquid, n.o.s. (2-propanol mixture) 1993

14.3. Hazard Class: 3 14.4. Packing Group:

Transportation by Road Classification code: Limited Quantity: 5 L **Excepted Quantity:** E 1

Tunnel restriction code: Special instructions: 640E

Air Transportation Limited Quantity: LQ7 **Excepted Quantity:** E 1



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355 max. weight PAX: 60 I PAX. CAO: 366 max. weight CAO: 220 I

Maritime Transport

Storage Category: A F-E. S-E

#### 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 Carriage of bulk cargo by sea in accordance with IMO instruments

Not applicable.

## **SECTION 15: Regulatory Information**

## 15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

https://www.osha.gov/dsg/hazcom/ghs.html

29 CFR 1910.1200 Hazard communication.

NIOSH Pocket Guide to Chemical Hazards

NIOSH Workplace Safety & Health Topics

TSCA Inventory

**U.S. State Regulations** 

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1)

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

## 15.2 Chemical Safety Assessment

not necessary for these small amounts

## **SECTION 16: Other Information**

## 16.1 Changes compared to the last version

Between versions 2.3.7.11 and 2.2.2.2 following changes were applied: - 1 product component data corrected - 5 composition data corrected - 9 substance data corrected

### 16.2 List of Hazard and Precaution Phrases

### 16.2.1 List of relevant H Phrases

H226 Flammable liquid and vapor. H302 Harmful if swallowed. H315 Causes skin irritation H319 Causes serious eye irritation. May cause drowsiness or dizziness. H336

H412 Harmful to aquatic life with long lasting effects.

16.2.2 List of relevant P Phrases

> P264W Wash with water thoroughly after handling.

P273 Avoid release to the environment.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+312

P330

## 16.3 **Recommended Restriction on Use**

Only for Professional User.

Look about employee restrictions for young people!

Look about employee restrictions for pregnant women and nursing women!

An individual package of this product or test kit has a moderate hazardous potential.

## 16.4 Sources of Key Data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)



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Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP) Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)

TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019

Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

revisions/updates

2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary Reason for revision:

2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

### 16.5 **Further Information**

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## 16.6 Legend / Abbreviations

according acc:

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act. acute

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only

Carc: carcinogen

Chemical Abstracts Service CAS:

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

DNFI · Derived No-Effect Level (for workers)

derm: dermal dog: dog

EC10: Concentration causing a toxic effect in 10% of the test organisms

**European Community** EC:

Substance number of the EC substance inventory EC-Nr: EmS: Guide to accident management measures on ships

EU: **European Union** fish: fish (not specified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

quinea pig gpg: ICAO:

International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous int<sup>.</sup> intraperitonaeal

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% LD50: letale dosis 50%

leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration



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Met: Metall mus: mouse Muta: mutagen

NIOSH: National Institute for Occupational Safety and Health (US)

NRD: Non-rapidly degradable

fish, rainbow trout onchorhynchus mykiss:

orl: oral

OSHA: Occupational Safety and Health Administration PAX: transport on passenger planes allowed persistent, bioaccumulating, toxic substance PBT:

pH: pH value

pimephales promelas: fish, fathead minnow PNEC: Predicted No Effected Concentration PROC 15: Process category 'for laboratory use'

PRTR: Law for PRTR and Promotion of Chemical Management (Jp)

PVC: polyvinyl chloride bird, quail quail: rat: rat rbt: rabbit

RD: rapidly degradable

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

Reg.No.: rRegistration number Repr: harmful to reproduction

Resp: respiratory sub cutan scu:

RIP: **REACH Implementations Projects** 

SDS: safety data sheet Sens: sensitisation

STEL: short term exposure limit STOT: Specific Target Organ Toxicity Substance of Very High Concern SVHC:

t/a: tons per year

TCCA: Toxic Chemicals Control Act (S. Korea) Tox:

TSCA: The Toxic Substances Control Act (US) time weighted average TWA:

technical regulations (DE) vPvB: very persistent, very bioaccumulating substance

### 16.7 **Training Advice**

TRGS:

Regular safety training. 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.



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