Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744352.4	NucleoMag RNA Blood (4x96)	Page: 1/20
Printing Date: 06.02.2024	Date of Issue: 05.02.2024	Version: 2.15.3.1

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

1.1 Product Identifier / Product Name

REF Product Name 744352.4 NucleoMag RNA Blood (4x96)

1 x 60 mL RNase-free H ₂ O 4 x 1.8 mL B-Beads 1 x 7 mL Liquid Proteinase K 3 x 60 mL Reaction Buffer for rDNase 1 x 200 mL MRB1 1 x 300 mL MRB2 1 x 125 mL MRB2 1 2 x Size D rDNase

UFI: TTWV-43C9-R202-NTGN

UFI: JRCV-E309-S20K-0VHT UFI: H0AV-936C-N20Q-S1VH UFI: H0AV-936C-N20Q-S1VH UFI: 8SGV-63EY-520U-3WWU

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 and of the Safety Data Sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany Phone: +49 2421 969 0

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, https://www.poisonhelp.org DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

99089 Erfurt tel. +49 361 730 730 <https://www.ggiz-erfurt.de>

<http://www.mn-net.com/SDS>

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

You find our current versions of SDS in Internet:

SECTION 2: Hazard(s) Identification

2.0 Classification of the complete Product

GHS02 GHS07 GHS08

Signal WordDANGERHazard IdentificationHazard Classes/CategoriesH225Flam. Liq. 2H302Acute Tox. 4 oralH319Eye Irrit. 2H334Resp. Sens. 1H336resp. irrit. STOT SE 3

2.1 Classification of the substance or mixture

7 mL Liquid Proteinase K



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	^	
	GHS08	
Signal Word	DANGER	
Hazard Identification	Hazard Classes/Categories	
H334	Resp. Sens. 1	
125 mL MRB2		
	GHS02 GHS07	
Signal Word	WARNING	
Hazard Identification	Hazard Classes/Categories	
H226 H302	Flam. Liq. 3 Acute Tox. 4 oral	
11002		
300 mL MRB2		
	A A	
	\checkmark \checkmark	
	GHS02 GHS07	
Signal Word	WARNING	
Hazard Identification	Hazard Classes/Categories	
H226 H302	Flam. Liq. 3 Acute Tox. 4 oral	
200 mL MRB1		
	GHS02 GHS07	
Signal Word	DANGER	
-		
Hazard Identification H225	Hazard Classes/Categories Flam. Liq. 2	
H319	Eye Irrit. 2	
H336	resp. irrit. STOT SE 3	
60 mL RNase-free H ₂ O		
	Do not need labelling as hazardous	
Signal Word	-	
No Hazard Class		



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Size D rDNase	Date 0113546. 00.02.2024	Version, 2, 10.0.
	GHS08	
Signal Word	DANGER	
Hazard Identification	Hazard Classes/Categories	
H334	Resp. Sens. 1	
60 mL Reaction Buffer for rDI	Nase	
Signal Word	Do not need labelling as hazardous -	
No Hazard Class		
1.8 mL B-Beads		
Signal Word	Do not need labelling as hazardous -	
No Hazard Class		
List of H phrases: see section 16.2		
2.2 Safety, Health and Environ	mental 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. This labelling exemption is NOT valid for sensibilizing substances.

7 mL Liquid Proteinase K



Signal Word: DANGER H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261sh, P284, P342+311, P501 Avoid breathing dust/vapors.[In case of inadequate ventilation] wear respiratory protection.lf experiencing respiratory symptoms: Call a POISON CENTER/doctor.Dispose of contents/container to regulated waste treatment.

125 mL MRB2



Signal Word: WARNING

300 mL MRB2





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Software: M2 V 6.1.5.0



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Signal Word: WARNING

HŽ26, H302

Flammable liquid and vapor Harmful if swallowed.

P210, P233, P241, P242, P243, P264W, P270, P280, P301+312, P303+361+353, P330, P403+235, P501 Wash with water thoroughly after handling.IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.Keep away from heat/sparks/open flames/hot surfaces. No smoking.Keep container tightly closed.Use explosion-proof [electrical/ventilating/lighting] equipment.Use non-sparking tools.Take precautionary measures against static discharge.Do not eat, drink or smoke when using this product.Wear protective gloves/protective clothing/eye protection/face protection.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].Rinse mouth.Store in a well-ventilated place. Keep cool.Dispose of contents/container to regulated waste treatment.

200 mL MRB1



GHS02 GHS07

Signal Word: DANGER

H225, H319, H336

Highly flammable liquid and vapor.Causes serious eye irritation.May cause drowsiness or dizziness. P210, P241, P242, P243, P261, P264, P271, P280sh, P303+361+353, P305+351+338, P312, P337+313, P403+235,

P405, P501

Avoid breathing dust/fume/gas/mist/vapors/spray.Keep away from heat/sparks/open flames/hot surfaces. No smoking.Use explosion-proof [electrical/ventilating/lighting] equipment.Use non-sparking tools.Take precautionary measures against static discharge.Wash hands thoroughly after handling.Use only outdoors or in a well-ventilated area.Wear protective gloves/eye protection.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Call a POISON CENTER/doctor if you feel unwell.If eye irritation persists: Get medical advice/attention.Store in a well-ventilated place. Keep cool.Store locked up.Dispose of contents/container to regulated waste treatment.

60 mL RNase-free H 2 O

Do not need labelling as hazardous Signal Word: -

Size D rDNase



Signal Word: DANGER H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261sh, P284, P342+311, P501 Avoid breathing dust/vapors.[In case of inadequate ventilation] wear respiratory protection.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.Dispose of contents/container to regulated waste treatment.

60 mL Reaction Buffer for rDNase

Do not need labelling as hazardous Signal Word: -

1.8 mL B-Beads

Do not need labelling as hazardous Signal Word: -

Label elements of the complete product





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Signal Word: DANGER

H225, H302, H319, H334, H336

Highly flammable liquid and vapor.Harmful if swallowed Causes serious eye irritation.May cause allergy or asthma symptoms or breathing difficulties if inhaled.May cause drowsiness or dizziness.

P210, P241, P242, P243, P261sh, P264W, P270, P271, P280sh, P284, P301+312, P303+361+353, P305+351+338, P330, P337+313, P342+311, P403+235, P405, P501

Avoid breathing dust/vapors.Wash with water thoroughly after handling.IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.Keep away from heat/sparks/open flames/hot surfaces. No smoking.Use explosion-proof [electrical/ventilating/lighting] equipment.Use non-sparking tools.Take precautionary measures against static discharge.Do not eat, drink or smoke when using this product.Use only outdoors or in a well-ventilated area.Wear protective gloves/eye protection.[In case of inadequate ventilation] wear respiratory protection.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Rinse mouth.If eye irritation persists: Get medical advice/attention.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.Store in a well-ventilated place. Keep cool.Store locked up.Dispose of contents/container to regulated waste treatment.

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. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness.

Kit contains small amounts of enzymes, which may cause sensitization by direct and repeated contact.

Information pertaining to particular Risks to the Environment

PBT: not applicable vPvB: not applicable

Possible endocrine disrupting effects

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

7 mL Liquid Proteinase K

LI	Substance name: CAS No.:	proteinase K, liquid 39450-01-6		
	Substance rating: Chemical Formula: Synonyms (de): EC No.:	H315, Skin Irrit. 2, H319, Eye Irrit. 2, Enzyme Comm. No. 3.4.21.64, _{origin} Endopeptidase K 254-457-8		647-014-00-9
	Concentration: acc. GHS:	1 - <3 % H334, Resp. Sens. 1		
	Substance name: CAS No.:	glycerole 56-81-5		
	Substance rating: Chemical Formula: Synonyms (de): REACH Reg. No.: EC No.: Concentration: acc. GHS:	No criteria for classification or naming of cher C $_3$ H $_8$ O $_3$ 1,2,3-Propantriol 01-2119471987-18-xxxx 200-289-5 10 - <50 % The criteria for classification are not fulfilled.	mical is not required. Indice No.:	n/a

125 mL MRB2



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CA Sul Chi Syr RE EC Coi acc	bstance name: S No.: bstance rating: emical Formula: nonyms (de): EACH Reg. No.: No.: ncentration: c. GHS: bstance name:	ethanol 64-17-5 (denatured with 1% 2-butanone) H225, Flam. Liq. 2 $C_2 H_6 O; C_2 H_5 OH$ Äthylalkohol, vergällter Spiritus 01-2119457610-43-xxxx 200-578-6 20 - <35 % H226, Flam. Liq. 3 sodium perchlorate	Indice No.:	603-002-00-5	
CA Sul Chi Syr RE EC Coi	AS No.: bstance rating: lemical Formula: nonyms (de): EACH Reg. No.: No.: No.: oncentration: c. GHS:	7601-89-0 H271, Ox. Sol. 1, H302, Acute Tox. NaClO ₄ Perchlorat (fest) 01-2119540521-50-xxxx 231-511-9 15 - <40 % H302, Acute Tox. 4 oral	. 4 oral Indice No.:	017-010-00-6	
300 mL MRI	R2				
CA Sul Chi Syr RE EC Coi acc Sul CA	bstance name: AS No.: bstance rating: nonyms (de): EACH Reg. No.: No.: oncentration: c. GHS: bstance name: AS No.: bstance rating:	ethanol 64-17-5 (denatured with 1% 2-butanone) H225, Flam. Liq. 2 C 2 H 6 O; C 2 H 5 OH Äthylalkohol, vergällter Spiritus 01-2119457610-43-xxxx 200-578-6 20 - <35 % H226, Flam. Liq. 3 sodium perchlorate 7601-89-0 H271, Ox. Sol. 1, H302, Acute Tox.	Indice No.:	603-002-00-5	
Chi Syr RE EC Coi	emical Formula: nonyms (de): EACH Reg. No.: No.: ncentration: c. GHS:	NaClO 4 Perchlorat (fest) 01-2119540521-50-xxxx 231-511-9 15 - <40 % H302, Acute Tox. 4 oral	Indice No.:	017-010-00-6	
	B1 bstance name: \S No.:	2-propanol 67-63-0			
Chi Syr RE EC Coi	bstance rating: nemical Formula: nonyms (de): EACH Reg. No.: No.: oncentration: c. GHS:	H225, Flam. Liq. 2, H319, Eye Irrit. C ₃ H ₈ O Isopropanol, IPA, Propan-2-ol 01-2119457558-25-XXXX 200-661-7 95 - <100 % H225, Flam. Liq. 2, H319, Eye Irrit.	Indice No.:	603-117-00-0	
60 mL RNas	se-free H ₂ O				



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Substance name:	water	
CAS No.:	7732-18-5	
Substance rating:	No criteria for classification or naming of chemical is not required.	
Chemical Formula:	H ₂ O	
REACH Reg. No.:	exempt, Annex IV	
EC No.: Concentration:	231-791-2 90 - <100 %	
acc. GHS:	The criteria for classification are not fulfilled.	
Size D rDNase Substance name:	rDNase	
CAS No.:	9003-98-9	
Substance rating:	H334, Resp. Sens. 1	
Chemical Formula:	Enzyme Comm. No. 3.1.21.1, origin: cloned	
Synonyms (de): EC No.:	Deoxyribonucleodepolymerase 232-667-0	
Concentration:	232-007-0 90 - <100 %	
acc. GHS:	H334, Resp. Sens. 1	
60 mL Reaction Buffer for ri	DN 250	
Substance name:	chemicals/mixture until 2%	
CAS No.:	-	
Substance rating:	No criteria for classification or naming of chemical is not required.	
Concentration: acc. GHS:	1 - <2 %	
act. 6113.	The criteria for classification are not fulfilled.	
1.8 mL B-Beads		
Substance name: CAS No.:	magnetic particles, suspended in water -	
Substance rating:	No criteria for classification or naming of chemical is not required.	
Synonyms (de):	magnetic beads	
Concentration: acc. GHS:	1 - <15 %	
	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 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. 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 Vapors

After inhalation of foam or vapor 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 with activated charcoal supplement should be drunk after it has been ingested.



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4.2 Most important Symptoms and Effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Chronic effects: Repeated contact, even in small amounts, can lead to sensitization. Causes serious eye irritation.

4.3 Indication of any immediate Medical Attention and Special Treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive substance. Further treatment must to be carried out by an eye specialist. Inform patient respectively further measures and the possibility of long-term damages. --

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

DANGER: Highly flammable. Forms explosive vapor-air mixtures. Formation of hazardous and caustic vapor-air mixtures possible.

5.3 Advice for Firefighters

No, for listed product. The substance/mixture is highly 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. 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

Personal Precautions, Protective Equipment and Emergency Procedure 6.1

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

PBT:	not applicable
vPvB:	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.

64 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. 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. Classification into storage class A (Flammable). Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 3 1

Water hazard class (DE):



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7.2.1	Requirements for stock to Keep original product packages away or preferably separate fro of glass bottles.	rooms and containers s tightly closed during handling and storage, and store i m substances with which a hazardous reaction could ta	in a well-ventilated place at max. 77°F (25 °C), ake place. Use inbreakable container for transpor
7.3	Specific End Use(s) Product for analytical use.		
SECT		trols/Personal Protection	
8.1	Control Parameters		
	200 mL MRB1 Chemical: 2-propanol DNEL: DNEL = Derived No-Eff	[inh] 500 mg/m³	CAS No.: 67-63-0
	PNEC (fresh water) : PNEC = Predicted No E NIOSH: NIOSH STEL:	140.9 mg/L	
		verage to a reference period of 8 hours, [STEL] Short-term exposure [TWA] 400 ppm / 980 mg/m ³	limit related to a 15-minute period
	Size D rDNase Chemical: rDNase		CAS No.: 9003-98-9
	7 mL Liquid Proteinase P Chemical: glycerole DNEL: DNEL = Derived No-Eff	[inh] 56 mg/m³	CAS No.: 56-81-5
	PNEC (fresh water) : PNEC = Predicted No E	0.885 mg/L ffected Concentration	
	Chemical: proteinase	K, liquid	CAS No.: 39450-01-6
	60 mL Reaction Buffer for Chemical: chemicals/r	n rDNase nixture until 2%	CAS No.: -
	1.8 mL B-Beads Chemical: <i>magnetic pa</i>	articles, suspended in water	CAS No.: -
	125 mL MRB2 Chemical: <i>sodium per</i> DNEL: DNEL = Derived No-Eff	[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m³	CAS No.: 7601-89-0
	NIOSH: [TWA] Time-weighted a OSHA:	not listed verage to a reference period of 8 hours, [STEL] Short-term exposure not listed	limit related to a 15-minute period
	Chemical: <i>ethanol</i> DNEL: DNEL = Derived No-Eff		CAS No.: 64-17-5
	PNEC _(fresh water) : PNEC = Predicted No E NIOSH:	0.96 mg/L ffected Concentration [TWA] 1000 ppm / 1900 mg/m ³	
		verage to a reference period of 8 hours, [STEL] Short-term exposure 1000 ppm / 1900 mg/m ³	limit related to a 15-minute period
	300 mL MRB2 Chemical: <i>sodium per</i> DNEL: DNEL = Derived No-Eff	[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m³	CAS No.: 7601-89-0
	NIOSH:	not listed verage to a reference period of 8 hours, [STEL] Short-term exposure not listed	limit related to a 15-minute period



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	DNEL: DNEL = Der PNEC (fresh water)	nanol [derm] 343 mg/kg; [inh] 950 mg/m ³ ved No-Effect Level (for workers) : 0.96 mg/L dicted No Effected Concentration [TWA] 1000 ppm / 1900 mg/m ³	5
		weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute peri 1000 ppm / 1900 mg/m³	od
	60 mL RNase-free Chemical: wa	ter CAS No.: 7732-1	8-5
8.2	Exposure Contro Good ventilation and e level of cleanliness mu	DIS extraction system in the room, floor resistant to chemicals with floor drainage and washing ust be maintained at the workplace.	facilities. The highest
8.2.1	Respiratory Pro	ection ess of these substances for example a vapor/dust respirator, class A/AX. No additional re	commendations.
8.2.2	Yes, gloves (pern	/ Hand protection neation time >30 min - level 2), consist of PVC, Natural latex, Neopren, or Nitril. Use for sl oves f.ex. with code EN 374-3 level 1.	nort times chemical
8.2.3	Eye / Face Prote Yes, Splash Gog		
8.2.4	Skin Protection Recommended to	avoid contamination with these hazards.	
8.2.5	with the skin, eye	es smoking, taking snuff and storage of food in work areas and at outdoor workplaces is proh s and clothing. Rinse any clothing on which the substance has been spilled, and soak it ir pap and water when stopping work and before eating, and then apply protective skin crea	n water. Wash hands
8.2.6	Thermal hazards data not available	3	
8.3	Limitation and m	t into environmental exposure	
SECT	ION 9: Physical	and Chemical Properties	
9.1	Information on E	asic Physical and Chemical Properties	

200 mL MRB1

liquid
colorless
alcoholic
-90 °C
82 °C
data not available
2-12.7 Vol%
12 °C
425 °C
data not available
data not available
data not available
0-100 %
data not available
43 hPa
0.78 g/cm ³
2.08
data not available

Size D rDNase

- a) State of aggregation: b) Color: c) Odor: d) Melting Point:



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data not available

solid (lyophilized) white odorless data not available

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Safety Data Sheet

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e) Boiling Point:	data pat available	
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 (K _{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:	data not available	
7 mL Liquid Proteinase K		
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:	7-8	
 Kinematic Viscosity: 	data not available	
m) Soluble in Water:	0-100 %	
n) Partition Coefficient (K _{o/w}):	data not available	
o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity:	1.1 g/cm ³	
q) Relative Vapor Density (air=1):	data not available	
r) Particle Size:	data not available	
60 mL Reaction Buffer for rDNase		
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 (K _{o/w}):	data not available	
o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity:	1.01 g/cm ³	
q) Relative Vapor Density _(air=1) : r) Particle Size:	data not available data not available	
1.8 mL B-Beads	Record	
a) State of aggregation:	liquid	
b) Color:	colorless	
c) Odor: d) Malting Paint:	odorless	
d) Melting Point: e) Boiling Point:	data not available	
	data not available	

e) Boiling Point: f) Flammability: g) Explosive Limits (lower / upper): h) Flash Point:



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data not available data not available

data not available data not available

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i) Autoignition Temperature:		
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 data not available	
n) Partition Coefficient (K _{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:	data not available	
125 mL MRB2 a) State of aggregation:	liquid	
b) Color:	colorless	
c) Odor:	alcoholic	
d) Melting Point:	data not available	
e) Boiling Point:	83,6 °C	
f) Flammability:	data not available	
g) Explosive Limits (lower / upper):	data not available	
h) Flash Point:	26 °C	
i) Autoignition Temperature:	data not available	
j) Decomposition Temperature:	data not available	
k) pH Value:	4.5-5.5	
I) Kinematic Viscosity:	data not available	
m) Soluble in Water:	data not available	
n) Partition Coefficient (K _{o/w}):	data not available	
o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity:	1.06 g/cm ³	
q) Relative Vapor Density _(air=1) :	data not available	
r) Particle Size:	data not available	
300 mL MRB2		
a) State of aggregation:	liquid	
b) Color:	colorless	
c) Odor:	alcoholic	
d) Melting Point:	data not available	
e) Boiling Point:	83,6 °C	
f) Flammability:	data not available	
g) Explosive Limits (lower / upper):	data not available	
h) Flash Point:	26 °C	
i) Autoignition Temperature:	data not available	
j) Decomposition Temperature:	data not available	
k) pH Value:	4.5-5.5	
I) Kinematic Viscosity:	data not available	
m) Soluble in Water:	data not available	
n) Partition Coefficient (K _{o/w}):	data not available	
o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity: q) Relative Vapor Density _(air=1) :	1.06 g/cm ³	
r) Particle Size:	data not available data not available	
60 mL RNase-free H ₂ O		
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 6-8	
k) pH Value:	6-8	

- k) pH Value: I) Kinematic Viscosity:



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m) Soluble in Water: n) Partition Coefficient (K_{o/w}): o) Vapor Pressure (68°F): p) Specific Gravity: q) Relative Vapor Density _(air=1): r) Particle Size:

data not available data not available data not available 1.0 g/cm³ data not available data not available

9.2 Further Information

9.2.1 Information on physical hazard classes data not available

9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

Substances are highly volatile and form flammable gas-air mixtures.

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. No further data available.
- **10.4** Conditions to avoid But formation of explosive gases/vapours with air is possible. Use only in well ventilated rooms. No more required.
- **10.5** Incompatible Materials Avoid storage with oxidizing 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.

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.

Following information is	valid for pure chemic	als. Quantitative data on the toxicity of this product are not available.
200 mL MRB1		
Chemical:	2-propanol	CAS No.: 67-63-0
TSCA Inventory:	listed	California Prop. 65 List: not listed
ACGIH:	1230 ppm	
Exposure Routes:	inhalation, inge	estion, skin and/or eye contact
Target Organs:	Eyes, skin, res	piratory system
Symptoms:	irritation eyes, i	nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis
Canada CEPA 1999:	DSL yes	
LD50 orl rat :	5045 mg/kg	
LC Low orl hmn :	3570 mg/kg	
LC50 ihl rat :	25 mg/L/4H	

Size D rDNase

 Chemical:
 rDNase
 CAS No.: 9003-98-9

 TSCA Inventory:
 listed

 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.



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	.4		ucleoMag RNA Blood (4x96)		Page: 14/20
rinting Date:	06.02.2024	Da	ate of Issue: 05.02.2024		Version: 2.15.3.
	7 mL Liquid Protein	ase K			
	Chemical:	glycerole		CAS No.: 56-81-5	
	TSCA Inventory:	listed (1,2,3-Prop	anetriol)		
	Exposure Routes:	inhalation, skin ar	nd/or eve contact		
	Target Organs:		atory system, kidneys		
	Symptoms:		in, respiratory system; headache, nause	a vomiting kidnev injurv	
	LD50 orl rat :	12600 mg/kg		a, vornang, klaney injary	
	LDOU on rat.	12000 mg/kg			
	Chemical:	proteinase K, liquid		CAS No.: 39450-01-6	
	TSCA Inventory:	listed (CAS 1029)	25-54-2)	0,10,10,10,00,00,01,0	
			th when ingested in small quantities.		
			in contact, also in repeated contact of sn	all amounts. May cause	alleray or asthma
		ng difficulties if inhaled.	in contact, also in repeated contact of sh	ian amounts. May cause	anorgy of astrine
	, .	0			
	60 mL Reaction Buf				
	Chemical:	chemicals/mixture until 2	2%	CAS No.: -	
	TSCA Inventory:	all listed, <2%			
	1.8 mL B-Beads				
	Chemical:	magnetic particles, susp	ended in water	CAS No.: -	
	TSCA Inventory:	listed (CAS 1309-		0, 10, 10, 1	
	ree, chineng.		00 <u>2</u>)		
	125 mL MRB2			040 N 7004 00 0	
	Chemical:	sodium perchlorate		CAS No.: 7601-89-0	
	TSCA Inventory:	listed	California Prop. 65 List: not listed		
	Canada CEPA 1999:				
	LD50 orl rat :	2100 mg/kg			
		· · ·	ents of health when ingested in small qu		
	Chemical:	ethanol		CAS No.: 64-17-5	
	TSCA Inventory:	listed	California Prop. 65 List: not listed		
	ACGIH:	1000 ppm			
	Exposure Routes:	inhalation, ingesti	ion, skin and/or eye contact		
	Target Organs:	Eyes, skin, respir	atory system, central nervous system, liv	ver, blood, reproductive s	system
	Symptoms:		in, nose, headache, drowsiness, lassitud		
	liver damage, anemia	a; reproductive, teratogenio	C	·	, .
	Canada CEPA 1999:				
	LD50 orl rat :	6200 mg/kg			
	LC_Low ihl gpg :	21,900 mg/L			
	LC Low orl hmn :	1400 mg/kg			
	LC50 ihl mus :	123,4 mg/L/4H			
	LC50 ihl rat :	115,9-133,8 mg/L	/4H		
	LD50 orl mus :	3450 mg/kg			
	LDJU ori mus .	5450 mg/kg			
	300 mL MRB2	a dium ranabla ta		CAR N 7004 00 0	
	Chemical:	sodium perchlorate	California Dran. 05 bist wetl' to b	CAS No.: 7601-89-0	
	TSCA Inventory:	listed	California Prop. 65 List: not listed		
	Canada CEPA 1999:				
	LD50 orl rat	2100 mg/kg			
		after oral intake, impairme	ents of health when ingested in small qu		
	Chemical:	ethanol		CAS No.: 64-17-5	
	TSCA Inventory:	listed	California Prop. 65 List: not listed		
	ACGIH:	1000 ppm			
	Exposure Routes:		ion, skin and/or eye contact		
	Target Organs:	Eyes, skin, respir	atory system, central nervous system, liv	ver, blood, reproductive s	system
	Symptoms:	irritation eyes, ski	in, nose, headache, drowsiness, lassituc	le (weakness, exhaustior	n), narcosis; cou <u>o</u>
		; reproductive, teratogeni			
	Canada CEPA 1999:				
	LD50 orl rat :	6200 mg/kg			
	LC_Low ihl gpg :	21,900 mg/L			
	LC LOW in gpg : LC LOW orl hmn :	1400 mg/kg			
		123,4 mg/L/4H			
	LC50 ihl mus :	123,4 mg/L/4H 115,9-133,8 mg/L	/ 4 H		
			/40		
	LC50 ihl rat		-,		
	LC50 ihl rat : LD50 orl mus :	3450 mg/kg			

60 mL RNase-free H 2 O



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Printing	Date: 06.02.2024	Date of Issue: 05.02.2024	Version: 2.15.3.
	Chemical: water TSCA Inventory: LD50 _{orl rat} :	listed > 90000 mg/kg	CAS No.: 7732-18-5
11.2	Other Hazards		
		ting effects ains components considered to have endocrinedisrupting pro mission Regulation (EU) 2018/605 or Commission Delegated	
	Other Information no additional data available		
SECT	ION 12: Ecological Info	ormation	
12.1	Toxicity Following information is valid f	or pure chemicals.	
	200 mL MRB1 Substance name: 2-prop PNEC (fresh water) : PNEC = Predicted No Effected Con	eanol 140.9 mg/L centration = concentration at which no effect on the environment is expected 1400 mg/l	CAS-Nr.: 67-63-0
	LC50 fish/96h: EC50 daphnia/48h: IC50 scenedesmus quadricauda/7	13.3 g/L	
	EC10 pseudomonas putita/16h Water hazard class (DE): Storage class (VCI):	EC5: 1050 mg/L 1 WGK No.: 0135 3	
	Size D rDNase Substance name: <i>rDNas</i> Water hazard class (DE): Storage class (VCI):	e 1 WGK No.: n.n. 13	CAS-Nr.: 9003-98-9
	7 mL Liquid Proteinase K Substance name: glycer		CAS-Nr.: 56-81-5
	PNEC = Predicted No Effected Con	0.885 mg/L centration = concentration at which no effect on the environment is expected	d
	LC50 _{fish/96h} : EC50 _{daphnia} /48h :	>5000 _{24h} mg/L >10 _{24h} g/L	
	IC50 scenedesmus quadricauda/7	_{2h} : IC5 _{7d} >10 g/L	
	EC10 _{pseudomonas putita/16h} : Water hazard class (DE): Storage class (VCI):	EC5: >10 g/L 0 10	
	o ()		
	Substance name: protein Water hazard class (DE): Storage class (VCI):	nase K, liquid 1 13	CAS-Nr.: 39450-01-6
	60 mL Reaction Buffer for a Substance name: chemic Water hazard class (DE):		CAS-Nr.: -
	Storage class (VCI):	12-13	
	1.8 mL B-Beads Substance name: magne Storage class (VCI):	etic particles, suspended in water 12	CAS-Nr.: -
	125 mL MRB2 Substance name: <i>sodiun</i> Water hazard class (DE): Storage class (VCI):	n perchlorate 1 WGK No.: 0382 12	CAS-Nr.: 7601-89-0



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	LC50 daphnia magna/48h : LC50 pimephales promelas/96h : LC50 leuciscus idus/96h : LC50 fish/96h : EC50 daphnia/48h : IC50 scenedesmus quadricauda/72h : EC10 pseudomonas putita/16h : Water hazard class (DE):	0.96 mg/L ation = concentration at which no effect on the environment is >100 g/L 13.4-15.1 g/L [48h] 8.14 g/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096	CAS-Nr.: 64-17-5 expected	
	Storage class (VCI): 300 mL MRB2 Substance name: sodium per Water hazard class (DE): Storage class (VCI):	3 rchlorate 1 WGK No.: 0382 12	CAS-Nr.: 7601-89-0	
	Substance name: ethanol PNEC (fresh water) : PNEC = Predicted No Effected Concentra LC50 daphnia magna/48h : LC50 pimephales promelas/96h : LC50 leuciscus idus/96h : LC50 fish/96h :	0.96 mg/L ation = concentration at which no effect on the environment is >100 g/L 13.4-15.1 g/L [48h] 8.14 g/L 13 g/L	CAS-Nr.: 64-17-5 expected	
	EC50 daphnia/48h : IC50 scenedesmus quadricauda/72h : EC10 pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): 60 mL RNase-free H ₂ O Substance name: water	9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096 3	CAS-Nr.: 7732-18-5	
			0/10/11/1/102/10/0	
2.2	Persistence and Degradabili	ty		
2.3	Bioaccumulative Potential			
	200 mL MRB1 Substance name: Partition Coefficient (K _{o/w}):	2-propanol 0,05	CAS-Nr.: 67-63-0	
	7 mL Liquid Proteinase K Substance name: Partition Coefficient (K _{o/w}):	glycerole -1,76	CAS-Nr.: 56-81-5	
	Substance name: Partition Coefficient (K _{o/w}): Substance name: Partition Coefficient (K _{o/w}):	<i>ethanol</i> -0,31 <i>ethanol</i> -0,31	CAS-Nr.: 64-17-5 CAS-Nr.: 64-17-5	
2.4	Mobility in Soil			
 2 E	Bosults of BBT and vBvB As			

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

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

12.7 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 (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: 1993 14.2. Proper Shipping Name: 14.3. Hazard Class: 3 14.4. Packing Group: II Transportation by Road	Flammable liquid, n.c	o.s. (2-propanol, ethano	l mixture)
Classification code:	F1		
Limited Quantity:	1 L	Tunnel restriction co	de: E
Excepted Quantity:	E 2	Special instructions:	640C
Air transport IATA DGR			
Limited Quantity:	PAX: 353	max. quantity PAX:	5 L
	CAO: 364	max. quantity CAO:	60 L
Excepted Quantity: Maritime transport IMDG	E2		
EmS:	F-E, S-E	Staukategorie:	В

14.5 Environmental Hazards

none, contains only small quantities of hazardous 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** 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 2.15.3.1 and 2.2.2.2 following changes were applied: - 13 product component data corrected - 1 composition data corrected

16.2 List of Hazard and Precaution Phrases



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6.2.1	List of relevant		
	Н	Between versions 2.15.3.1 and 2.2.2.2 following changes were applied: - 13 product	component data
	11005	corrected - 1 composition data corrected	
	H225	Highly flammable liquid and vapor.	
	H226	Flammable liquid and vapor.	
	H302	Harmful if swallowed.	
	H319	Causes serious eye irritation.	
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	H336	May cause drowsiness or dizziness.	
6.2.2	List of relevant	P Phrases	
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P241	Use explosion-proof [electrical/ventilating/lighting] equipment.	
	P242	Use non-sparking tools.	
	P243	Take precautionary measures against static discharge.	
	P261sh	Avoid breathing dust/vapors.	
	P264W	Wash with water thoroughly after handling.	
	P270	Do not eat, drink or smoke when using this product.	
	P271	Use only outdoors or in a well-ventilated area.	
	P280sh	Wear protective gloves/eye protection.	
	P284	[In case of inadequate ventilation] wear respiratory protection.	
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
	P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with	water [or shower]
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense:	
	P303+331+336		s, il present and easy t
	D 220	do. Continue rinsing.	
	P330	Rinse mouth.	
	P337+313	If eye irritation persists: Get medical advice/attention.	
	P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.	
	P403+235	Store in a well-ventilated place. Keep cool.	
	P405	Store locked up.	
	P501	Dispose of contents/container to regulated waste treatment.	
6.3	Recommended	Restriction on Use	
	Only for Professional		
	Look about employee	e restrictions for young people! e restrictions for pregnant women and nursing women!	
	An individual package	e of this product or test kit has a moderate hazardous potential.	
6.4	Sources of Key	Data	
	•	flets on hazardous materials, 2021	
		6 Minimum requirements to improve the safety and health protection of workers at risk from	notentially explosive
	atmospheres		potentially explosive
		es in the air at work 2009, revised on 01/2009	
		/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)	
	Regulation 452/2010	/EU, adaptation of the REACH regulation 1907/2006/EG	
	TRCS 007 Cormon	reconsideration of the Reconstructure and equation (1907/2007/EQ) underted Nevember 2011	Degulation
		technical rules for listing substances and causes of sensitization, updated November 2011	Regulation
		tion of regulation 1272/2008/EG to technical and scientific progress (4th ATP)	
		5/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)	
	Demulation CCO/2010	(EU adaptation of Demulation 1979/2000/EC to technical and existific presence Text (11th	
		/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th	
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		(EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)	
		rules of technology on limit values in the air at work, as of 03/2019	
		/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific	progress (14th ATP)
		/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG	
		0/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientifi	
		/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific	
		/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific	
	Regulation 692/2022	/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific	progress (18th ATP)
	revisions/updates		
	Reason for revision:		ssary
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		2016-03 adjustment according Regulation 1221/2015/EU	
		2017–08 adjustment according the Ordinance on Ethanol Denaturation 2016/1867/EU	
		2017-11 adjustment according the ECHA registration dossier	
		2022-11 adjustment according Regulation 878/2020/EU	



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16.5 Further Information

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16.6 Legend / Abbreviations

Legena / F	ADDreviations
acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only
Carc:	carcinogen
CAS:	Chemical Abstracts Service
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
DNEL:	Derived No-Effect Level (for workers)
derm:	dermal
dog:	dog
EC10:	Concentration causing a toxic effect in 10% of the test organisms
EC:	European Community
EC-Nr:	Substance number of the EC substance inventory
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
gpg:	guinea pig
ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
	intraperitonaeal
ipt: ISHL:	
	Industrial Safety and Health Law (Jp)
LC50:	letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus	
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	us mykiss: fish, rainbow trout
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT:	persistent, bioaccumulating, toxic substance
pH:	pH value
pimephales p	
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
quail:	bird, quail
rat:	rat arb bit
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACh:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number



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Repr: Resp: scu: RIP: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: Tox: TSCA:	harmful to reproduction respiratory sub cutan REACH Implementations Projects safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US)
TCCA:	Toxic Chemicals Control Act (S. Korea)
TWA:	time weighted average
TRGS:	technical regulations (DE)
vPvB:	very persistent, very bioaccumulating substance

16.7 Training Advice

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.

