# CHEREY-NAGE



## SDS acc. Hazard Communication Standard

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

#### 1.1 **Product Identifier / Product Name**

RFF Product Name 740956.240C NucleoSpin RNA Virus (240)

2 x 25 mL RAV3 2 x 30 mL RE 10 x 0.09-1.0 mg Carrier RNA 3 x 75 mL RAW 2 x 120 mL RAV1

UFI: ME7V-33GF-F20U-XTDK

#### Relevant identified Uses of the Substance or Mixture and Uses advised against 1.2 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

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, <https://www.poisonhelp.org> DE: Gemeinsames Giftinformationszentrum (GGIZ)

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

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

You find our current versions of SDS in Internet:

## SECTION 2: Hazard(s) Identification

#### 2.0 **Classification of the complete Product**



WARNING
Hazard Classes/Categories
Flam. Liq. 3
Acute Tox. 4 oral
Skin Irrit. 2
Eye Irrit. 2
Aquatic Chronic 3

#### 2.1 Classification of the substance or mixture

0.09-1.0 mg Carrier RNA

Do not need labelling as hazardous

## Signal Word

No Hazard Class



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  - US Tel.: +1 888 321 62 24 sales-us@mn-net.com





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	75 mL RAW		
		GHS02 GHS07	
	Signal Word	WARNING	
	Hazard Identification	Hazard Classes/Categories	
	H226 H302	Flam. Liq. 3 Acute Tox. 4 oral	
	H315	Skin Irrit. 2	
	H319	Eye Irrit. 2	
	120 mL RAV1		
		•	
		$\wedge$	
		GHS07	
	Signal Word	WARNING	
	Hazard Identification	Hazard Classes/Categories	
	H302 H412	Acute Tox. 4 oral Aquatic Chronic 3	
	25 mL RAV3		
	Signal Word	Do not need labelling as hazardous -	
	-		
	No Hazard Class		
	30 mL RE		
		Do not need labelling as hazardous	
	Signal Word	-	
	No Hazard Class		
	List of H phrases: see section 16.2		
.2	Safety, Health and Environ	nental Regulations/Legislation specific for the Su	bstance or Mixture
	According the implementation of GH word, manufacturer name and phone WARNING and highly flammable cho	S immediate packages only must be labelled with product identificate number (OSHA's interpretation of HCS 2012). Harmful chemicals/ emicals/mixtures must not be labelled with H and P phrases <b>until 1</b> IS 2015). This labelling exemption does not apply to U.S.A.	ator(s), GHS symbol(s), signal /mixtures with signal word:
		$\sim 20.00$ , this labeling exchiption does not apply to 0.0.A.	

#### 0.09-1.0 mg Carrier RNA

Do not need labelling as hazardous Signal Word: -

75 mL RAW



Signal Word: WARNING



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120 mL RAV1



Signal Word: WARNING

25 mL RAV3 Do not need labelling as hazardous

Signal Word: -

**30 mL RE** Do not need labelling as hazardous Signal Word: -

### Label elements of the complete product



Signal Word: WARNING

### 2.3 Other Hazards

#### Possible Hazards from physicochemical Properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. 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

#### 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

#### 75 mL RAW

пгг				
	Substance name: CAS No.:	<i>guanidine hydrochloride</i> 50-01-1		
	Substance rating: Chemical Formula: Synonyms (de): REACH Reg. No.:	H302, Acute Tox. 4 oral, H315, Ski CH <sub>6</sub> ClN <sub>3</sub> Guanidiniumchlorid 01-2119977063-35-0005		
	EC No.:	200-002-3	Indice No.:	607-148-00-0
	Concentration:	24 - <36 %		
	acc. GHS:	H302, Acute Tox. 4 oral, H315, Ski	n Irrit. 2. H319. Eve Irri	t. 2
			, , <b>,</b>	
	Substance name:	ethanol		
	CAS No.:	64-17-5		
	0.10.101	(denatured with 1% 2-butanone)		
	Substance rating:	H225, Flam. Lig. 2		
	Chemical Formula:	$C_2H_6O; C_2H_5OH$		
	Synonyms (de):	Äthylalkohol, vergällter Spiritus		
	REACH Reg. No.:	01-2119457610-43-xxxx		
	EC No.:	200-578-6	Indice No.:	603-002-00-5
	Concentration:	35 - <55 %	Indice No	003-002-00-3
	•			
	acc. GHS:	H226, Flam. Liq. 3		



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25 mL F	RAV3 Substance name: CAS No.:	chemicals/mixture until 1% -	
	Substance rating: Concentration: acc. GHS:	No criteria for classification or naming of chemical is not required. $0,1 - <1\%$ The criteria for classification are not fulfilled.	
30 mL F	RE		
	Substance name: CAS No.:	chemicals/mixture until 1% -	
	Substance rating: Concentration: acc. GHS:	No criteria for classification or naming of chemical is not required. 0,1 - <1 $\%$ The criteria for classification are not fulfilled.	
120 mL	RAV1 Substance name: CAS No.:	guanidinium thiocyanate 593-84-0	
	Substance rating: H412, Aquatic Chror Chemical Formula: Synonyms (de): REACH Reg. No.: EC No.: Concentration: acc. GHS:	C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> S Guanidiniumrhodanid 01-2120735072-65-0001	n Corr. 1C, H332, Acute Tox. 4 inh., 5-004-00-3
	Substance name: CAS No.:	<i>Triton</i> ® <i>X-100</i> 9002-93-1	
	Substance rating: Chemical Formula: Synonyms (de): <b>SVHC listed:</b> Concentration: acc. GHS:	H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, C <sub>33</sub> H <sub>60</sub> O <sub>10,5</sub> Octylphenoxyethoxyethanol <b>listed (19/12/2012) Cand. Lst. REACH Art59(10)+Annex XIV</b> 0,25 - <2,5 % H412, Aquatic Chronic 3	
0.09-1.0	) mg Carrier RNA Substance name: CAS No.:	<i>carrier RNA</i> 26763-19-9	
	Substance rating: Synonyms (de): Concentration: acc. GHS:	No criteria for classification or naming of chemical is not required. Polyadenylic acid, K salt 90 - <100 % 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.

#### 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).



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4.1.3	<b>After INHALATION of Vap</b> After inhalation of foam or v	<b>ors</b> apor fresh air should be inhaled. Keep airways free.	
4.1.4	After ORAL Intake After oral intake lots of wate	r should be drunk after it has been ingested.	
4.2	Most important Sympton	ns and Effects, both acute and delayed	
4.3	Indication of any immed No additionally recommendation	iate Medical Attention and Special Treatment nee <sup>s</sup>	ded
SEC	ΓΙΟΝ 5: Fire-Fighting N	leasures	
5.1	Extinguishable Media		
5.1.1	the work area. All extinguisl appropriate to the fire class	odia te to the fire classification, and, if applicable, a fire blanket must be ters like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOX fication, and, if applicable, a fire blanket must be available in a pro ATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.	KIDE can be used.Fire extinguishers minent location in the work area. All
5.1.2	Unsuitable extinguishing data not available	media	
5.2		from the Substance or Mixture m explosive vapor-air mixtures. Formation of hazardous and caust	ic vapor-air mixtures possible.
5.3	Advice for Firefighters No, for listed product.Product pa	ckage burns like paper or plastic.	
5.4	Additional Information		

## SECTION 6: Accidental Release Measures

6.1 **Personal Precautions, Protective Equipment and Emergency Procedure** Do not breathe vapors. 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 sewer.
- 6.4 Reference to other Sections

## **SECTION 7: Handling and Storage**

7.1 Precautions for Safe Handling

Handling in accordance with the test instruction, that comes with the product.

- 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):
   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)



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Product for analytical use.

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

## 8.1 Control Parameters

Chemical:	guanidine hydrochloride	CAS No.: 50-01-1
DNEL: DNEL	[inh] 3.5 mg/m³ = Derived No-Effect Level (for workers)	
PNEC <sub>(fresh w</sub> PNEC	/ater) - = Predicted No Effected Concentration	
NIOSH: [TWA]	not listed Time-weighted average to a reference period of 8 hours, [STEL] S	hort-term exposure limit related to a 15-minute period
OSHA:	not listed	
Chemical: DNEL:	ethanol [derm] 343 mg/kg; [inh] 950 mg/m³ = Derived No-Effect Level (for workers)	CAS No.: 64-17-5
PNEC (fresh w	. ,	
NIOSH: [TWA]	[TWA] 1000 ppm / 1900 mg/m³ Time-weighted average to a reference period of 8 hours, [STEL] S	hort-term exposure limit related to a 15-minute period
OSHA:	1000 ppm / 1900 mg/m³	
25 mL RAV3		
Chemical:	chemicals/mixture until 1%	CAS No.: -
30 mL RE		
Chemical:	chemicals/mixture until 1%	CAS No.: -
120 mL RAV	'1	
Chemical: DNEL: DNEL	guanidinium thiocyanate [inh] 1092 μg/m³ = Derived No-Effect Level (for workers)	CAS No.: 593-84-0
PNEC <sub>(fresh w</sub> PNEC	/ater) 42.4 μg/L = Predicted No Effected Concentration	
NIOSH: [TWA]	not listed Time-weighted average to a reference period of 8 hours, [STEL] S	hort-term exposure limit related to a 15-minute period
OSHA:	not listed	
Chemical:	Triton® X-100	CAS No.: 9002-93-1
	Carrier RNA	
Chemical:	carrier RNA	CAS No.: 26763-19-9

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

Not necessary.

### 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

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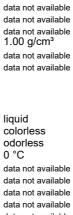
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8.2.6	Thermal hazards data not available		
3.3	Limitation and monitoring of env Do not release product into environment.	ironmental exposure	
SECT	FION 9: Physical and Chemica	I Properties	
9.1	Information on Basic Physical an	nd Chemical Properties	
	<ul> <li>75 mL RAW</li> <li>a) State of aggregation:</li> <li>b) Color:</li> <li>c) Odor:</li> <li>d) Melting Point:</li> <li>e) Boiling Point:</li> <li>f) Flammability:</li> <li>g) Explosive Limits (lower / upper):</li> <li>h) Flash Point:</li> <li>i) Autoignition Temperature:</li> <li>j) Decomposition Temperature:</li> <li>k) pH Value:</li> <li>l) Kinematic Viscosity:</li> <li>m) Soluble in Water:</li> <li>n) Partition Coefficient (o/w) :</li> <li>o) Vapor Pressure (68°F):</li> <li>p) Specific Gravity:</li> <li>q) Relative Vapor Density (air=1) :</li> <li>r) Particle Size:</li> </ul>	liquid colorless alcoholic data not available data not available data not available data not available 23 °C data not available data not available	
	<b>25 mL RAV3</b> a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Beiling Point:	liquid colorless odorless data not available	

d) Melting Point:
e) Boiling Point:
f) Flammability:
g) Explosive Limits (lower / upper):
h) Flash Point:
i) Autoignition Temperature:
j) Decomposition Temperature:
k) pH Value:
l) Kinematic Viscosity:
m) Soluble in Water:
n) Partition Coefficient (o/w) :
o) Vapor Pressure (68°F):
p) Specific Gravity:
q) Relative Vapor Density (air=1) :
r) Particle Size:

#### 30 mL RE

a) State of aggregation: b) Color: c) Odor: d) Melting Point: e) Boiling Point: f) Flammability: g) Explosive Limits (lower / upper): h) Flash Point: i) Autoignition Temperature: j) Decomposition Temperature: k) pH Value: l) Kinematic Viscosity: m) Soluble in Water: n) Partition Coefficient (o/w) : o) Vapor Pressure (68°F):



data not available

data not available

data not available data not available

data not available

data not available 7-8

data not available

data not available data not available data not available 8-9 data not available data not available data not available data not available



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# **MACHEREY-NAGEL**

# Safety Data Sheet

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p) Specific Gravity: q) Relative Vapor Density <sub>(air=1)</sub> :	1.0 g/cm <sup>3</sup>	
r) Particle Size:	data not available	
	data not available	
120 mL RAV1		
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): h) Flash Point:	data not available	
i) Autoignition Temperature:	data not available	
j) Decomposition Temperature:	data not available	
k) pH Value:	data not available 7.0-7.5	
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:	1.12 g/cm <sup>3</sup>	
q) Relative Vapor Density (air=1):	data not available	
r) Particle Size:	data not available	
0.09-1.0 mg Carrier RNA		
a) State of aggregation:	solid (lyophilized)	
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: n) Partition Coefficient <sub>(o/w)</sub> :	data not available	
o) Vapor Pressure ( $68^{\circ}$ F):	data not available	
p) Specific Gravity:	data not available data not available	
q) Relative Vapor Density <sub>(air=1)</sub> :	data not available	
() Relative vapor Density (air-1)		

## 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** 

## **SECTION 10: Stability and Reactivity**

## 10.1 Reactivity

No further data available.

### Chemical Stability

no known instability.

## 10.3 Possibility of Hazardous Reactions



10.2

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

#### 10.4 Conditions to avoid

#### 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.

5		,	1
75 mL RAW			
Chemical:	guanidine hydrochloride		CAS No.: 50-01-1
TSCA Inventory:	listed	California Prop. 65 List: not listed	
Canada CEPA 1999:	DSL yes		
LD50 orl rat :	475-907 mg/kg		
LC50 ihl rat :	3181-7655 µg/m³/4F	1	
		s of health when ingested in small qu	antition
		s of fiealth when higested in small qua	
Chemical:	ethanol		CAS No.: 64-17-5
TSCA Inventory:	listed	California Prop. 65 List: not listed	
ACGIH:	1000 ppm		
Exposure Routes:		, skin and/or eye contact	
Target Organs:	Eyes, skin, respirato	ry system, central nervous system, liv	ver, blood, reproductive system
Symptoms:	irritation eyes, skin, i	nose; headache, drowsiness, lassitud	e (weakness, exhaustion), narcosis; cough;
liver damage: anemia	a; reproductive, teratogenic		( , , , , , , , , , , , , , , , , , , ,
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	1	
LD50 <sub>orl mus</sub> :	3450 mg/kg		
25 mL RAV3			
	ala anaisa da (mintrura cuntil 40/		
Chemical:	chemicals/mixture until 1%		CAS No.: -
TSCA Inventory:	all listed, <1%		
30 mL RE			
Chemical:	chemicals/mixture until 1%		CAS No.: -
			CA3 NU
TSCA Inventory:	all listed, <1%		
120 mL RAV1			
Chemical:	guanidinium thiocyanate		CAS No.: 593-84-0
TSCA Inventory:	listed	California Prop. 65 List: not listed	
Canada CEPA 1999:		California i Top. 05 Elst. Not listed	
LD50 <sub>orl rat</sub> :	593 mg/kg		
LC50 ihl rat :	5,319 mg/L/4H		
		s of health when ingested in small qua	
Chemical:	Triton® X-100		CAS No.: 9002-93-1
TSCA Inventory:	listed		
LD50 orl rat :	707-1800 mg/kg		
	5. 5		
• • • • • • • •			
0.09-1.0 mg Carrier			
Chemical:	carrier RNA		CAS No.: 26763-19-9
LD50 orl rat :	11250 mg/kg		
LD50 orl mus :	13791 mg/kg		
LD50 scu rat :	1493 mg/kg		
	1700 mg/ng		



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11.2	Other Hazards			
	Possible endocri	ine disrupting effe	cts	
	This substance/m	ixture contains con	ponents considered to have endocrinedisrupting pro Regulation (EU) 2018/605 or Commission Delegated	
	Other Information no additional data			
SECT	ION 12: Ecologi	cal Informat	ion	
12.1	Toxicity			
	Following information	n is valid for pure	chemicals.	
	75 mL RAW			
	Chemical: PNFC (fresh water)	guanidine hyd	rochloride -	CAS No.: 50-01-1
	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: EC10 pseudomonas	putita/16h :	70.2 mg/L [72h] 11.8-33.5 mg/L	
				0.0.0.1. 0.1.17.5
	Chemical: PNEC (fresh water) PNEC = Predicted No	<i>ethanol</i> Effected Concentration	0.96 mg/L	CAS No.: 64-17-5
	LC50 daphnia magna		>100 g/L	
	LC50 pimephales pro	omelas/96h	13.4-15.1 g/L	
	LC50 leuciscus idus/ LC50 fish/96h	96h :	[48h] 8.14 g/L 13 g/L	
	EC50 daphnia/48h :		9.3-14.2 g/L	
	IC50 scenedesmus q	uadricauda/72h:	[7d] 5000 mg/L	
	EC10 pseudomonas Partition Coefficie		[EC5] 6500 mg/L -0,31	
	25 mL RAV3			
	Chemical:	chemicals/mix	ure until 1%	CAS No.: -
	30 mL RE			0.0.0.1
	Chemical:	chemicals/mix	ure until 1%	CAS No.: -
	120 mL RAV1		i a su a su a fa	CAC No. ( 502.04.0
	Chemical: Harmful to aquatic	<i>guanidinium th</i> life with long lastir	locyanate ig effects. Avoid contact of chemical/mixture to envir	CAS No.: 593-84-0
			abelled with P phrases until 125 mL (EU-CLP 1272/2	
	PNEC (fresh water)	Effected Concentration	42.4 µg/L	
	LC50 fish/96h :		[4d] 89.1 mg/L	
	EC50 daphnia/48h :		42.4 mg/L	
	IC50 scenedesmus q EC10 pseudomonas		130 mg/L [10d] 200 mg/L	
	Partition Coefficie		-1,11 pH 5.1	
	Chemical:	Triton® X-100		CAS No.: 9002-93-1
			ig effects. Avoid contact of chemical/mixture to envir abelled with P phrases until 125 mL (EU-CLP 1272/2	
	0.09-1.0 mg Carri			CAC No 00700 40 0
	Chemical:	carrier RNA		CAS No.: 26763-19-9
12.2	Persistence and	Degradabilitv		
	not necessary	J		



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### 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

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

## **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: 14.3. Hazard Class	1993 : 3		Proper Shipping Name: Fla Packing Group: III	mmable liquid, n.o.s	. (ethanol mixture)
Transportation by Ro	ad				
Classification code:	F1				
Limited Quantity:	5 L		Tunnel restriction code:	D/E	
Excepted Quantity:	E 1		Special instructions: 640E		
Air Transportation					
Limited Quantity:		LQ 7			
Excepted Quantity:		E 1			
PAX:		355		max. weight PAX:	60 L
CAO:		366		max. weight CAO:	220 L
Maritime Transport					
EmS:	F-E, S	-E	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** 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)



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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 2.2.6.10 and 2.2.2.2 following changes were applied: - 4 composition data corrected - 8 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.	
H412	Harmful to aquatic life with long lasting effects.	

#### 16.2.2 List of relevant P Phrases

#### 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 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) 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 3, 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 (16th ATP)

#### revisions/updates

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

2014-04 adjustment according Regulation 487/2013/EU

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

## 16.5 Further Information

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6.6	Logond /	Abbraviationa	
0.0	-	Abbreviations	
	acc: ADR:	according 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 Concentration coupling a taxis affect in 10% of the test argonisms	
	EC10: EC:	Concentration causing a toxic effect in 10% of the test organisms 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	
	ipt:	intraperitonaeal	
	ISHL:	Industrial Safety and Health Law (Jp)	
	LC50:	letale concentration 50%	
	LD50: leuciscus id	letale dosis 50% us: fisch, ide, orfe	
	MAK:	maximum workplace concentration	
	Met:	Metall	
	mus:	mouse	
	Muta:	mutagen	
	NIOSH:	National Institute for Occupational Safety and Health (US)	
	NRD:	Non-rapidly degradable	
	onchorhync	hus 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 PNEC:	promelas: fish, fathead minnow 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	
	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	
	scu:	sub cutan	
	RIP:	REACH Implementations Projects	
	SDS:	safety data sheet	
	Sens:	sensitisation	
	STEL: STOT:	short term exposure limit Specific Target Organ Tarjeity	
	SVHC:	Specific Target Organ Toxicity Substance of Very High Concern	
	OVIIO.		



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# Safety Data Sheet

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TCCA:Toxic Chemicals Control Act (S. Korea)Tox:toxicTSCA:The Toxic Substances Control Act (US)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.



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