# ACHEREY-NAGEI



# Safety Data Sheet

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

REF: 744400.1	NucleoMag Plant (1x96)	Page: 1/15
Printing date: 12.05.2021	Date of issue: 04.02.2021	

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

**Product identifier** 1.1

REF Product name 744400.1 NucleoMag Plant (1x96)

REACH Registration number(s): see SECTION 3.1/3.2 or A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 3 mL C-Beads
1 x 60 mL MC1
1 x 50 mL MC2
1 x 75 mL MC3
1 x 75 mL MC4
1 x 125 mL MC5
1 x 30 mL MC6
1 x 0.6-20 mg RNase A (Iyo)

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

Relevant identified uses Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

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

Manufactured by:

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

1.4 Emergency telephone number

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

You find our current versions of SDS (22 languages) in Internet:

# SECTION 2: Hazard identification

#### 2.0 Classification of the complete product



Signal word

Hazard identification	Hazard classes/categories
H225	Flam. Liq. 2
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H336	STOT SE 3

DANGER

#### 2.1 Classification of the substance or mixture

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

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# **MACHEREY-NAGEL**



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

EF: 744400.1 inting date: 12.05.2021	NucleoMag Plant (1x96) Date of issue: 04.02.2021	Page: 2/1
3 mL C-Beads		
5 mL O-Deaus	Do not no di la cillina co bonardore	
Signal word	Do not need labelling as hazardous -	
No hazard class		
60 mL MC1		
Signal word	Do not need labelling as hazardous	
No hazard class		
50 mL MC2		
	<b>^ ^</b>	
	GHS02 GHS07	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H225 H319 H336	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	
75 mL MC3		
	GHS02 GHS07	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226 H302	Flam. Liq. 3 Acute Tox. 4 oral	
75 mL MC4		
Signal word	GHS02 GHS07 WARNING	
Hazard identification	Hazard classes/categories	
H226 H302	Flam. Liq. 3 Acute Tox. 4 oral	
125 mL MC5		
Signal word	Do not need labelling as hazardous -	
No hazard class		



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Fax:



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

Resp. Sens. 1

	Hazard identification	Hazard classes/categories
	Signal word	DANGER
		GHS08
	0.6-20 mg RNase A (Iyo)	
	No hazard class	
	Signal word	Do not need labelling as hazar -
	30 mL MC6	
inting d	late: 12.05.2021	Date of issue: 04.02.2
REF: 744		NucleoMag Plant (1x9

#### 2.2 Label elements

H334

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

### 3 mL C-Beads

Do not need labelling as hazardous Signal word: -

### 60 mL MC1

Do not need labelling as hazardous Signal word: -

### 50 mL MC2



### 75 mL MC3



Signal word: WARNING

### 75 mL MC4



Signal word: WARNING

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# ACHEREY-NAGEI



# Safety Data Sheet

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

REF: 744400.1	NucleoMag Plant (1x96)	Page: 4/15
Printing date: 12.05.2021	Date of issue: 04.02.2021	

### 125 mL MC5

Do not need labelling as hazardous Signal word: -

### 30 mL MC6

Do not need labelling as hazardous Signal word: -

### 0.6-20 mg RNase A (lyo)



Signal word: DANGER

H334

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

P261sh, P342+311 Avoid breathing dust/vapours. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

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

Information pertaining to particular risks to human and possible symptoms Cause after oral intake, impairments of health when ingested in small quantities. Kit contains small amounts of enzymes: May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

Information pertaining to particular risks to the environment PBT: not applicable vPvB: not applicable

Other hazards

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

### 3 mL C-Beads

. O-Deaus		
Chemical:	magnetic particles, suspended in water	CAS No.: -
Classification: TSCA Invento	ry: listed (CAS 1309-38-2)	
Concentration acc. CLP (GH		

### 60 mL MC1

n chloride	CAS No.: 7647-14-5
No criteria for classification or naming of chemical not required.	
NaCl	
salt	
listed	
exempt, Annex V	
231-598-3	
VZ4725000	
KE-31387	
5 - <10 %	
The criteria for classification are not fulfilled.	
	No criteria for classification or naming of chemical not required. NaCl salt listed exempt, Annex V 231-598-3 VZ4725000 KE-31387 5 - <10 %

### 50 mL MC2

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REF: 744400.1		NucleoMag Plant (	,		Page: 5/1
Printing date: 12.05.2021		Date of issue: 04.0	2.2021		
C	hemical: 2-prop	papol		CAS No.: 67-63-0	
	lassification:	H225, Flam. Liq. 2, H319, Eye Ir	rit. 2, H336, STOT SE 3		
	ormula:	C <sub>3</sub> H <sub>8</sub> O	,, .		
P	seudonym:	isopropanol, IPA, propan-2-ol			
	SCA Inventory:	listed			
	EACH Reg. No.:	01-2119457558-25-XXXX		000 117 00 0	
	C No.:	200-661-7	Indice No.:	603-117-00-0	
	TECS:	NT8050000	MFCD:	00011674	
	E No.: concentration:	KE-29363 95 - <100 %			
	cc. CLP (GHS):	H225, Flam. Liq. 2, H319, Eye Ir	rit. 2, H336, STOT SE 3		
	_				
75 mL MC:	<b>3</b> Chemical: <i>ethan</i> d			CAS No.: 64-17-5	
0		tured with 1%IPA/1%MEK, acc.20	16/1867/EU)		
С	lassification:	H225, Flam. Liq. 2			
F	ormula:	C <sub>2</sub> H <sub>6</sub> O, C <sub>2</sub> H <sub>5</sub> OH			
	seudonym:	ethyl alcohol, methylated spirit			
	SCA Inventory:	listed			
	EACH Reg. No.:	01-2119457610-43-xxxx			
	C No.:	200-578-6	Indice No.:	603-002-00-5	
	TECS:	KQ6300000	MFCD:	00003568	
	E No.: concentration:	KE-13217 20 - <35 %			
	cc. CLP (GHS):	H226, Flam. Liq. 3			
0	homiool, oo <i>diu</i> u	-		CAS No.: 7601-89-0	
	Chemical: <i>sodiur</i> Classification:	n perchlorate H271, Ox. Sol. 1, H302, Acute T	ov 4 oral	CAS NO., 7601-69-0	
	ormula:	NaClO <sub>4</sub>	JX. 4 01di		
	SCA Inventory:	listed			
	EACH Reg. No.:	01-2119540521-50-xxxx			
	C No.:	231-511-9	Indice No.:	017-010-00-6	
R	TECS:	SC9800000	MFCD:	-	
	E No.:	KE-31569			
	concentration:	15 - <40 %			
a	cc. CLP (GHS):	H302, Acute Tox. 4 oral			
75 mL MC	4				
C	hemical: ethand			CAS No.: 64-17-5	
0		tured with 1%IPA/1%MEK, acc.20	16/1867/EU)		
	lassification:	H225, Flam. Liq. 2			
	ormula:	$C_2 H_6 O; C_2 H_5 OH$			
_	seudonym:	ethyl alcohol, methylated spirit listed			
P					
P: T:	SCA Inventory:	01-2110457610-43-2222			
P: T: R	SCA Inventory: EACH Reg. No.:	01-2119457610-43-xxxx 200-578-6	Indice No	603-002-00-5	
P: T: R E:	SCA Inventory: EACH Reg. No.: C No.:	200-578-6	Indice No.: MFCD:	603-002-00-5 00003568	
P T R E R	SCA Inventory: EACH Reg. No.:		Indice No.: MFCD:	603-002-00-5 00003568	
P T: R E R K	SCA Inventory: EACH Reg. No.: C No.: TECS:	200-578-6 KQ6300000			
P T R E R K C	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.:	200-578-6 KQ6300000 KE-13217			
P: T: R E: R K C a	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.: concentration: cc. CLP (GHS):	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i>	MFCD:		
P T R E R K C a C C C C	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.: concentration: cc. CLP (GHS): chemical: sodiur classification:	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i> H271, Ox. Sol. 1, H302, Acute T	MFCD:	00003568	
P T: R E R K C a C C F	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.: concentration: cc. CLP (GHS): chemical: sodiur classification: ormula:	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i> H271, Ox. Sol. 1, H302, Acute Tr NaClO <sub>4</sub>	MFCD:	00003568	
P T; R E R K C a C C F T T	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.: concentration: cc. CLP (GHS): chemical: <i>sodiur</i> classification: ormula: SCA Inventory:	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i> H271, Ox. Sol. 1, H302, Acute Tr NaClO <sub>4</sub> listed	MFCD:	00003568	
P T; R E K C a C C F T; R	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.: concentration: cc. CLP (GHS): themical: <i>sodiur</i> assification: ormula: SCA Inventory: EACH Reg. No.:	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i> H271, Ox. Sol. 1, H302, Acute Tr NaClO <sub>4</sub> listed 01-2119540521-50-xxxx	MFCD: ox. 4 oral	00003568 CAS No.: 7601-89-0	
P: T: R E: R K C C C Fi T: R E: E: E: E: E: E: E: E: E: E: E: E: E:	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.: concentration: cc. CLP (GHS): themical: <i>sodiur</i> classification: ormula: SCA Inventory: EACH Reg. No.: C No.:	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i> H271, Ox. Sol. 1, H302, Acute Tr NaClO <sub>4</sub> listed 01-2119540521-50-xxxx 231-511-9	MFCD: ox. 4 oral Indice No.:	00003568	
P: T: R E: R K C a C C F: T: R E: R R R R	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.: concentration: cc. CLP (GHS): themical: <i>sodiur</i> lassification: ormula: SCA Inventory: EACH Reg. No.: C No.: TECS:	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i> H271, Ox. Sol. 1, H302, Acute Tr NaClO <sub>4</sub> listed 01-2119540521-50-xxxx 231-511-9 SC9800000	MFCD: ox. 4 oral	00003568 CAS No.: 7601-89-0	
P: T: R E: R K C a C C F: T: R E: R K K	SCA Inventory: EACH Reg. No.: C No.: ETECS: ioncentration: cc. CLP (GHS): chemical: <i>sodiur</i> classification: ormula: SCA Inventory: EACH Reg. No.: C No.: TECS: E No.:	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i> H271, Ox. Sol. 1, H302, Acute Tr NaClO <sub>4</sub> listed 01-2119540521-50-xxxx 231-511-9 SC9800000 KE-31569	MFCD: ox. 4 oral Indice No.:	00003568 CAS No.: 7601-89-0	
P: T: R E: R K C a C C F: T: R E: R K C	SCA Inventory: EACH Reg. No.: C No.: TECS: E No.: concentration: cc. CLP (GHS): themical: <i>sodiur</i> lassification: ormula: SCA Inventory: EACH Reg. No.: C No.: TECS:	200-578-6 KQ6300000 KE-13217 20 - <35 % H226, Flam. Liq. 3 <i>n perchlorate</i> H271, Ox. Sol. 1, H302, Acute Tr NaClO <sub>4</sub> listed 01-2119540521-50-xxxx 231-511-9 SC9800000	MFCD: ox. 4 oral Indice No.:	00003568 CAS No.: 7601-89-0	

### 125 mL MC5



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

REF: 744400.1	NucleoMag Plant (1x96)		Page: 6/15
Printing date: 12.05.2021	Date of issue: 04.02.2021		
Chemical: cher	nicals/mixture < 1%	CAS No.: -	
Classification:	No criteria for classification or naming of chemical not required.		
TSCA Inventory: KE No.:	all listed, <1% listed		
Concentration:	0.1 - <1 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		
30 mL MC6			
Chemical: cher	nicals/mixture < 1%	CAS No.: -	
Classification:	No criteria for classification or naming of chemical not required.		
TSCA Inventory: KE No.:	all listed, <1% listed		
Concentration:	0.1 - <1 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		
0.6-20 mg RNase A (Iyo)			
Chemical: RNa	se	CAS No.: 9001-99-4	
Classification:	H334, Resp. Sens. 1		
Formula:	Enzyme Comm. No. 3.1.27.5, origin: bovine pancreas (contro	lled population)	
Pseudonym:	Nuclease, ribo-		
TSCA Inventory: EC No.:	listed		
RTECS:	232-646-6 RF0760000		
KE No.:	KE-30341		
Concentration:	90 - <100 %		
acc. CLP (GHS):	H334, Resp. Sens. 1		

### 3.3 Remarks

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

List of H and P phrases: see section 16.1

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

### 4.1.1 After SKIN Contact

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

### 4.1.2 After EYE Contact

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

### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

### 4.1.4 After ORAL Intake

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

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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

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

Inform patient respectively further measures and the possibility of long-term damages. ---



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

REF: 744400.1	NucleoMag Plant (1x96)	Page: 7/15
Printing date: 12.05.2021	Date of issue: 04.02.2021	

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. DANGER: Highly flammable (GHS regulation). Forms explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. ---

#### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

#### Additional information 5.4

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions.

Restrictions on activity must be observed.

#### 6.2 Environmental precautions

not necessary

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

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

#### 6.4 Reference to other sections

# SECTION 7: Handling and storage

#### Precautions for safe handling 7.1

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

- 7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 3 Water hazard class (DE): 1
- 7.2.1 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage.

#### 7.3 Specific end use(s)

Product for analytical use.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 **Control parameters**

3 mL C-Beads Chemical: magnetic part	icles, suspended in water	CAS No.: -
60 mL MC1 Chemical: sodium chlorid	de	CAS No.: 7647-14-5
<b>50 mL MC2</b> Chemical: 2-propanol DNEL: DNEL = Derived No-Effect	[inh] 500 mg/m³ t Level (for workers)	CAS No.: 67-63-0
PNEC <sub>(fresh water)</sub> : PNEC = Predicted No Effe	140.9 mg/L acted Concentration	
TRGS 900 (DE):	200 ppm / 500 mg/m³ E/e respirable	
Short-term exposure factor:	2 (II), Y	

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

REF: 744400.	.1		NucleoMag Plant (1x96)	Page: 8/1
Printing date:	12.05.2021		Date of issue: 04.02.2021	
	skin resorr	otive (H) respir	atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) MAK		200 ppm / 500 mg/m <sup>3</sup>	
	TRGS 903 (DE)		[Aceton B/b, U/b] 25 ma/L	
			B blood, U urine, a no limitation, b end of exposition or shift	
	NIOSH:		[TWA] 400 ppm / 980 mg/m³	
	NIOSH S		500 ppm / 1225 mg/m <sup>3</sup>	
		e-weighted aver	age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		[TWA] 400 ppm / 980 mg/m³	
	75 mL MC3			
		thanol	CAS No.: 64-17-5	
	DNEL:		[derm] 343 mg/kg; [inh] 950 mg/m <sup>3</sup> Level (for workers)	
	PNEC <sub>(fresh water)</sub> PNEC = Pr	):	0.96 mg/L	
	TRGS 900 (DE)		200 mL/m <sup>3</sup> / 380 mg/m <sup>3</sup> E/e respirable	
	Short-term expo	osure factor:	4 (II), Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) MAK		500 ppm / 960 mg/m <sup>3</sup>	
	NIOSH:	Value.	[TWA] 1000 ppm / 1900 mg/m <sup>3</sup>	
		e-weighted aver	age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		[TWA] 1000 ppm / 1900 mg/m³	
	Chemical: so	odium perchl	orate CAS No.: 7601-89-0	
	DNEL = De	erived No-Effect	[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m³ Level (for workers)	
	TRGS 900 (DE)	:		
			E/e respirable	
	NIOSH:	e-weighted aver	not listed age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:	e-weighted aver	not listed	
	OSHA.			
	75 mL MC4			
		thanol	CAS No.: 64-17-5	
	DNEL:	arity of No Effort	[derm] 343 mg/kg; [inh] 950 mg/m <sup>3</sup>	
			Level (for workers)	
	PNEC(fresh water) PNEC = Pr	): redicted No Effe	0.96 mg/L cted Concentration	
	TRGS 900 (DE)		200 mL/m³ / 380 mg/m³	
	Chart to me	auro fastar	E/e respirable	
	Short-term expo skin resorp	psure ractor: ptive (H), respir	4 (II), Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded	
			500 ppm / 960 mg/m³	
	NIOSH:		[TWA] 1000 ppm / 1900 mg/m <sup>3</sup>	
		e-weighted aver	age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		[TWA] 1000 ppm / 1900 mg/m³	
	Chemical: so	odium perchl	orate CAS No.: 7601-89-0	
	DNEL:		[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m <sup>3</sup>	
		erived No-Effect	Level (for workers)	
	TRGS 900 (DE)	:	- File and the late	
			E/e respirable	
	NIOSH: ITWAI Time	e-weighted aver	not listed age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		not listed	
	125 mL MC5	,		
	Chemical: ch	hemicals/mix	<i>ture &lt; 1%</i> CAS No.: -	
	00 ml 1100			
	30 mL MC6 Chemical: <i>ch</i>	hemicals/mix	ture < 1% CAS No.: -	



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REF: 7			NucleoMag Plant (1x96)	Page: 9/15
Printin			Date of issue: 04.02.2021	
	<b>0.6-20 mg F</b> Chemical:	Nase A (lyo) RNase	CAS No	o.: 9001-99-4
8.2	Exposure co	ntrols		
		and extraction system	in the room, floor resistant to chemicals with floor drainage an d at the workplace.	d washing facilities. The highest
8.2.1	<b>Respiratory</b> Use for oper		stances for example a protection filter, class A/AX. No additiona	al recommendations.
8.2.2		according EN 374 (pe	rmeation time >30 min - level 2), consist of PVC, natural latex, ical resistant latex gloves with code EN 374-3 level 1.	Neopren, or Nitril (f.ex. from Ansell
8.2.3	<b>Eye protect</b> Yes, safety		166 with integrated side shields or wrap-around protection.	
8.2.4	Skin protect Recomment		ation with these hazards.	
8.2.5	with the skir	ing, smoking, taking s , eyes and clothing. R	nuff and storage of food in work areas and at outdoor workplac inse any clothing on which the substance has been spilled, and nen stopping work and before eating, and then apply protective	l soak it in water. Wash hands

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

3 mL C-Beads		<u> </u>
Appearance: liquid	Colour: colourless	Odor: odorless
60 mL MC1		
Appearance: liquid	Colour: colourless	Odor: odorless
pH:	7.5-8.5	
Specific gravity:	1.06 g/cm³	
50 mL MC2 Appearance: liquid	Colour: colourless	Odor: alcoholic
Melting point:	-90 °C	
Boiling point:	82 °C	
Flash point:	12 °C	
Explosion limits:	2-12.7 Vol%	
Vapour pressure (20°C):	43 hPa	
Vapour density <sub>(air=1)</sub> :	2.08	
Specific gravity: Solubility in water:	0.78 g/cm³ 0-100 %	
Flashing temperature:	425 °C	
Volatiles by volume:	106 g/m <sup>3</sup>	
75 mL MC3		O dama da alta dia
Appearance: liquid pH:	Colour: colourless 4.5-5.5	Odor: alcoholic
Boiling point:	4.5-5.5 83,6 ℃	
Flash point:	26 °C	
Specific gravity:	1.06 g/cm <sup>3</sup>	
75 mL MC4		
Appearance: liquid	Colour: colourless	Odor: alcoholic
pH:	4.5-5.5	
Boiling point: Flash point:	83,6 °C 26 °C	
Specific gravity:	1.06 g/cm <sup>3</sup>	
125 mL MC5		



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REF: 7	44400.1	NucleoMag Plant (*	1x96) Page: 10/15
Printing	g date: 12.05.2021	Date of issue: 04.0	2.2021
	Appearance: liquid pH: Specific gravity:	Colour: colourless 8-9 1.0 g/cm³	Odor: odorless
	<b>30 mL MC6</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 8-9 1.0 g/cm³	Odor: odorless
	<b>0.6-20 mg RNase A (Iyo)</b> Appearance: solid (Iyoph.) Solubility in water:	Colour: colourless 0-100 %	Odor: odorless
9.2	Other information Data for the other parameters of the Relevant Properties of Substance Substances are very volantile and for	Group	use no registration and no chemical safety report is required.
SECT	ION 10: Stability and rea	ctivity	
10.1	<b>Reactivity</b> no further data available.		
10.2	Chemical stability No known instability.		
10.3	Possibility of hazardous re	actions	

- 10.3 Possibility of nazardous reactions No further data available.
- 10.4 Conditions to avoid Not necessary. ---

10.6

- 10.5 Incompatible materials Avoid contact with strong acids or alkalines.
  - Hazardous decomposition products In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

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

## 3 mL C-Beads

Chemical:	magnetic particles, suspended in water	CAS No.: -
TSCA Inventory:	listed (CAS 1309-38-2)	

### 60 mL MC1

Chemical:	sodium chloride	CAS No.: 7647-14-5
TSCA Inventory:	listed	
Korea Exist.Chem.	Inventory: KE-31387	
LD50 <sub>orl rat</sub> :	3000 mg/kg	
LD50 <sub>drm rbt</sub> :	10 g/kg	

## 50 mL MC2

Chemical:	2-propanol	CAS No.: 67-63-0
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1230 ppm	
Exposure Routes:	inhalation, ing	estion, skin and/or eye contact
Target Organs:		spiratory system
Symptoms:	irritation eyes,	nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis
Australia NICNAS:		Canada CEPA 1999: DSL yes



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

Printing date: 12.05.2021      Date of issue: 04.02.2021        Japan CSCL/PETR:      PAC yes, Japan DSCL:: issue: 12.05.2015, Article 57.2 (SDS required)        South Korea TCCA, Korae Exist.Chem.Inventory: KE-23933      SOS mg/kg        LDSOurner:      12.0 g/kg        LDSOurner:      12.0 g/kg        LDSOurner:      12.0 g/kg        TRGS 805 (DE):      R+ C <b>75 mL MC3</b> CAS No:: 64-17-5        TSCA Inventory:      Isiad        California Proposition 65 List: not listed      CAS No:: 64-17-5        TSCA Inventory:      Isiad      California Proposition 65 List: not listed        ACCHH:      Initiation, Ingestion, skin and/or eye contact      Initiation, Ingestion, skin and/or eye contact        Tymptome:      Initiation, Ingestion, skin and/or eye contact      Initiation, Ingestion, skin and/or eye contact        Japan CSCL/PETR:      Initiation, Ingestion, skin and/or eye contact      Initiation, Ingestion, skin and/or eye contact        Japan CSCL/PETR:      Initiation, Ingestion, skin and/or eye contact      Initiation, and and CEPA 1990; DSL yee        Japan CSCL/PETR:      Initiation, Ingestion, skin and/or eye contact      Initiation, Ingestion, skin and/or eyes, skin, Ingestion, Science, Science	REF: 744400.			leoMag Plant (1x96)	Page: 1
Japan ISHL: Istad 2:1,0%20,1%, Article 57-2 (SDS required) South Krova CX61 Corea Lista Chem.inventory, KE-2038 LOS Data at: SAS mg/kg LOS Data at: SAS mg/kg LOS Data at: I2.8 g/kg TRGS 905 (DE): R <sub>1</sub> C <b>75 mL MC3</b> Chemical: ethanol California Proposition 65 List. not listed ACG H: Internet in the attention in the attention of the atten	Printing date:	12.05.2021	Date	e of issue: 04.02.2021	
Jupan ISHL: Island 21,0%20,1%, Article 57-2 (SDS required) South Korea Cista CChem Inventory, KE-2063 LDSOutrait 543 mg/kg LCSOns in: 12,8 g/kg TRGS 905 (DE): R c C <b>75 mL MC3</b> Chemical: ethanol CAS No: 64-17-5 TSG Inventory: listed California Proposition 65 List not listed AGCH: Interference in the state of					
Japan ISHL: Island 2:1,0%20,1%, Article 57-2 (SDS required) South Korea CEXI Chem.inventory, KE-2963 LDSOuth and State Chem.inventory, KE-2963 LDSOuth and State Chem.inventory, KE-2963 LDSOuth and State Chem.inventory, KE-2963 LDSOuth and State Chem.inventory, KE-2963 TRGS 905 (DE): R.r.C <b>75 mL MC3</b> Chemical: ethanol CAS No: 64-17-5 TSCA Inventory: listed California Proposition 65 List not listed ACGIH: inventory is listed California Proposition 65 List not listed ACGIH: inventory is listed California Proposition 65 List not listed ACGIH: inventory is listed California Proposition 65 List not listed ACGIH: inventory is listed California Proposition 65 List not listed Australia MICMAS: not listed California Proposition 65 List not listed Japan ISHL: isleed 2:0,1%42(1),4%, Article 57-2 (SDS required) More Amage California Proposition (SDS List Not listed Japan ISHL: isleed 2:0,1%42(1),4%, Article 57-2 (SDS required) More Amage California Proposition (SDS List Not listed Japan ISHL: Implementary of Lister California Proposition (SDS List Not listed Japan ISHL: Implementary of Lister California Proposition (SDS List Not listed Japan ISHL: Implementary California Proposition (SD Lister California Proposition (SD Lister California Proposition (SD Lister California Proposition (SL Lister California Propo					
South Korea TCCA: Korea Exist Cheminiventory: KE-29833 LDS0urin at: 5045 mg/kg LC Lowentine: 370 Mg/kg LC South at: 12.6 g/mg/kg LC Lowentine: 12.6 g/mg/kg TRCS 805 (DE): R F C 75 mL MC3 TSCA Inventory: itsted California Proposition 65 List: not listed AcA No: 64-17-5 TSCA Inventory: itsted California Proposition 65 List: not listed AcA No: 64-17-5 TSCA Inventory: itsted California Proposition 65 List: not listed Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, neproductive system Symptoms: minitation, ingestion, skin, and/or oge contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, neproductive system Symptoms: minitation eyes, skin, nepsiratory system, central nervous system, liver, blood, neproductive system Symptoms: minitation eyes, skin, nepsiratory system, central nervous system, liver, blood, neproductive system Symptoms: mol isted, Japan PDSOL: not listed Japan ISHL: listed 30 (%a) (%a) (%a) (%a) (%a) LDSOuth Korea TCCA: not listed Korea Exist Cheminiveritory: KE-13317 LDSOuth Korea TCCA: not listed Canada CEPA 1999: DSL yes Japan CSCL/PKTR: not listed California Proposition 65 List: not listed Japan ISHL: listed 30 g/mg/kg LDSOuth rows: 3450 mg/kg LDSOuth rows: 3450 mg/kg LDSOuth rows: State organ respinsion 100 g/mg/kg LDSOuth Korea TCCA: not listed Japan ISHL: not listed South Korea TCCA: not listed Japan ISHL: not listed, Japan PSCL: not listed Japan ISHL: listed Xo Ma Ji M					
Korea Exist Chem.Inventory. KE-2383      LC Lows thm::    3570 mg/kg      LC Lows thm::    3570 mg/kg      LC Solver thm::    12.8 g/kg      TRGS 905 (DE):    R c      Solver thm::    12.8 g/kg      TGS 505 (DE):    R c      Solver thm::    india      Chemical:    extance      Commical:    india      Commical:    india      Commical:    india      Sopsure Routes:    indialing, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, rospiratory system, central nervous system, isor, block nervous, exhaustion), narcosis; c      Ilver damage, anemia; reproductive, leratogenic    Australia NICNAS:      Australia NICNAS:    not listed    Canda CEPA 1999: DSL yes      Japan CSCUPPTTR:    not listed    Canda CEPA 1999: DSL yes      Japan CSCUPPTTR:    not listed    California Proposition 65 List not listed      JCSON matc:    f40) 39 g/m²    LCSON-matc      LC Lows them    4200 00 mg/kg    CSON reproductive system      LC Lows them is:    20000 mg/kg    CSON reproductive system      LC Lows them    Solventory:    listed    California Pr			listed ≥1,0%/≥0,1%	, Article 57-2 (SDS required)	
LDSOur rational sector of the		South Korea TCCA:			
LC_LOWATING: 3570 mg/kg LDS0am tot: 12.8 g/kg TRGS 905 (DE): R-C <b>75 nL MC3</b> Chemical: ethanol California Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed ACIAH: in the ethanol california Proposition 65 List: not listed Aciantia NICAAS: not listed Aciantia CACA: not listed Aciantia NICAAS: NICAAS: NICAAS: NI			: KE-29363		
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LCS0hin ar: 12.8 g/kg TRGS 905 (DE): Rr C <b>75 mL MC3</b> Chemical: ethanol California Proposition 65 List not listed ACGIH: intro 1000 ppm Exposure Routes: intraliation, ingretation, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, control nervous system, liver, blood, reproductive system Target Organs: Eyes, skin, respiratory system, control nervous system, liver, blood, reproductive system Target Organs: Total Status (Park) (PAR)		LC Loworl hmn :	3570 mg/kg		
LDS0 <sub>km</sub> ndr: 12.8 g/kg TRGS 905 (DE): Rr C <b>75 mL MC3</b> California Proposition 65 List: not listed TisCA Inventory: listed California Proposition 65 List: not listed Target Organs: E-Pres, skin, respiratory system, central nervous system, liver, blood, reproductive system Target Organs: E-Pres, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: inflation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis, c liver dranage: anemia: reproductive, teratogenic Australia NCMAS: not listed Tisted Japan ISHL LDS0 <sub>wt</sub> rat: california Proposition 65 List: not listed South Korea TCCA: not listed Canada CEPA 1999: DSL yes Japan ISHL LDS0 <sub>wt</sub> rat: california Proposition 65 List: not listed South Korea TCCA: not listed California Proposition 65 List: not listed California Proposition 65 List: not listed California Proposition 65 List: not listed Japan ISHL LDS0 <sub>wt</sub> rat: california Proposition 65 List: not listed Japan ISHL LDS0 <sub>wt</sub> rat: southin previow (KS, MS, Rr C Chemical: south more 75 KS, MS, Rr C Chemical: south more 75 KS, MS, Rr C Chemical: south more 75 KS, more TCCA: not listed Japan ISHL: not listed California Proposition 65 List: not listed Japan ISHL: not listed South Korea TCCA: not listed South Korea TCCA: not listed Japan ISHL: not listed South Korea TCCA: not listed South Korea TCCA: not listed Japan ISHL: not listed Japan PISCL: not listed Japan ISHL: listed LSHL: not listed Japan ISHL: listed LSHL: not listed Japan ISHL: listed LSHL: not listed Japan PISCL: not listed Jap		LC50ihl rat :			
75 mL MC3    Eliad    California Proposition 65 List: not listed      TSCA Inventory:    Isted    California Proposition 65 List: not listed      Target Organis:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Target Organis:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      View damage; anemia: reproductive, teratogenic    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    not listed    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    not listed    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    1000 pmg    California Proposition 65 List: not listed      Japan CSCL/PRTR:    101120 g/m²    California Proposition 65 List: not listed      Japan CSCL/PRTR:    1020 mg/kg    California Proposition 65 List: not listed      LSSOb ring:    1401 39 g/m²    California Proposition 65 List: not listed      Joston mouse:    3450 mg/kg    California Proposition 65 List: not listed      Joston mouse:    3450 mg/kg    California Proposition 65 List: not listed      Joston mouse:    3450 mg/kg    California Proposition 65 List: not listed      Japan ISHL:    Not more arcola    CAS No: 7801-89-0      TSCA Inventory:    Isted    C					
Chemical: ethanol. California Proposition 65 List: not listed ACGH: University is is a main of expectation of the set of		TRGS 905 (DE):	R <sub>F</sub> C		
TSCA Inventory:    listed    California Proposition 65 List: not listed      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Targel Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    inflation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; o      Japan ISSL/IPRTR:    not listed    Canada CEPA 1999:    DSL yes      Japan ISSL/IPRTR:    not listed    California Program    DSL yes      Japan ISSL/IPRTR:    not listed    California Program    DSL yes      Japan ISSL/IPRTR:    not listed    California Program    DSL yes      Jost Nath Chen    TCCA:    not listed    California Program    DSL yes      LDSD-init in:    1400 mg/kg    California Proposition 65 List: not listed    DSL yes      LDSD-ont main:    1400 mg/kg    California Proposition 65 List: not listed    DSL yes      LDSD-ont main:    200 mg/kg    California Proposition 65 List: not listed    DSL yes      Japan ISSL/IPRTR:    not listed    California Proposition 65 List: not listed    Assalt NICNAS:      Chemical:    sodium perchiorate    California Proposition 65 List: not listed    Assalt NICNAS:	75	mL MC3			
TSCA Inventory:    listed    California Proposition 65 List: not listed      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Targel Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    uritation eyes, skin, nose; heedache, drowsiness, lassitude (weakness, exhaustion), narcosis; o      Japan ISSL/TR:    not listed    Canada CEPA 1999: DSL yes      Japan ISSL/TR:    not listed, apan PDSCL not listed      Japan ISSL/TR:    not listed    California Proposition 65 List: not listed      Japan ISSL/TR:    not listed    California Proposition 65 List: not listed      Japan ISSL/TR:    not listed    California Proposition 65 List: not listed      Jost Norea    CAS No: 7601-89-0      South Korea    TGCS on my Rig      LOSO-minus:    200 mg/kg      LOSO-minus:    3450 mg/kg      LOSO-minus:    3450 mg/kg      LDSO-driver,    listed    California Proposition 65 List: not listed      Japan ISSL/TR:    not listed    California Proposition 65 List: not listed      Australia NICNAS:    not listed    California Proposition 65 List: not listed      Australia NICNAS:    not listed    California Proposition 65		Chemical: ethan	bl		CAS No.: 64-17-5
ACGH:    1000 ppm      Exposure Routes:    inhialation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    initiation eyes, skin, nose: headache, drowsiness, lassitude (weakness, exhaustion), narcosis; o      Australia NICMAS:    not listed      Japan CSCL/PRTR:    not listed      Japan CSCL/PRTR:    not listed      Japan SHL:    listed 20, 1%/20, 1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    RC 132 (F)      LDBGemmat:    6200 mg/kg      LC.Gowningsp:    21 g g/m²      LDBGemmat:    2000 mg/kg      LDBGemmat:    <				California Proposition 65 List not I	
Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, orentral nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose, headache, drowsiness, lassitude (weakness, exhaustion), narcosis; o      Jupan CSCL/PRTR:    not listed      Japan CSCL/PRTR:    not listed      Japan CSCL/PRTR:    not listed      Japan CSCL/PRTR:    not listed      South Korea TCCA:    not listed      Colomation    14/00 mg/kg      LC_OWnit mouse:    [4h] 38 g/m <sup>2</sup> LC_Soburn mt    14/00 mg/kg      LSSOut for isolation mouse:    [4h] 38 g/m <sup>2</sup> LSSOut mouse:    [4h] 38 g/m <sup>2</sup> LSSOut motie:    sold/or mg/kg      LSSOut motie:    sold/or mg/kg      LSSOut mat:    [10h] 20 g/m <sup>2</sup> LSSOut mat:    sold/or mg/kg      LSSOut mat:    sold/or mg/kg      LSSOut mouse:    sold/or mg/kg      LSSOut mat:    sold/or mg/kg      LSSOut mat:    sold/or mg/kg      LSSOut mat:    sold/or mg/kg      LSSOut mat:    sold/or mg/kg      Japan SHL:    lssol					
Target Organs:    Eyes, skin, respiratory system, central nervous system, two, blood, reproductive system      Australa NICNAS:    not listed    Canada CEPA 199: DSL yes      Australa NICNAS:    not listed    Canada CEPA 199: DSL yes      Japan CSCUPRTR:    not listed    Japan (SHL:    Itsleted 20,1%:0.1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed    Japan (SHL:    Itsleted 20,1%:0.1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed    Japan (SHL:    Itsleted 20,1%:0.1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed    Canada CEPA 199: DSL yes    Itsleted 20,1%:0.1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed    Canada CEPA 199: DSL Yes    Itsleted 20,1%:0.1%, Article 57-2 (SDS required)      CSOborn mouse:    440 mg/kg    Canada CEPA 199: DSL Yes    Itsleted 20,1%:0.1%, Article 57-2 (SDS required)      South Korea Stat Chem.Inventory:    K5, MS, R-C    Chemical:    South Korea TCCA:    No: 7601-89-0      TSCA Inventory:    Iisted    California Proposition 65 List: not listed    Japan (SSL/PRR:    No: 64-17-5      Australia NICNAS:    not listed Japan PDSCL:    Canada CEPA 1999: DSL Yes    Japan (SSL/PRR:    No: 64-17-5      TSCA Inventory:				skin and/or eve contact	
Symptoms: inflation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Japan (SSL/PRTR: not listed) South Korea TCCA: not listed LosSouth forea TCCA: not listed Japan SNL: not listed Japan SOL/PRTR: not listed JobSouth at: 200 ng/kg LOSSouth at: 210 ng/kg LOSSouth at: 210 ng/kg LOSSouth at: 210 ng/kg LOSSouth at: 210 ng/kg LOSSouth forea Inventory: 4E-31569 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> CCA: No: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed Japan SNL: south Acutes TCCA: not listed Japan SNL/PRTR: not listed South Acutes TCCA: not listed Japan SNL weat TCCA: not listed California Proposition 65 List: not listed Japan SNL NCAS: not listed California Proposition 65 List: not listed Japan SNL NCAS: not listed California Proposition 65 List: not listed Japan SNL NCAS: not listed California Proposition 65 List: not listed Japan SNL NCAS: not listed California Proposi					iver blood reproductive system
liver damage; anemia; reproductive, terategonic vastralia NICNAS; not listed Japan CSCL/PRTR: not listed Japan PDSCL: not listed Japan CSCL/PRTR: not listed Japan PDSCL: not listed Korea Exist. Chem.Inventory; KE-13217 LDS0urt rat: 6200 mg/kg LC_Lowsi pg: 2.1.9 g/m <sup>2</sup> LC_S0w invoice: [4],139 g/m <sup>2</sup> LCS0w invoice: [4],139 g/m <sup>2</sup> LCS0w invoice: [4],139 g/m <sup>2</sup> LDS0urt rat: [10h] 20 g/m <sup>3</sup> LDS0urt rat: [10h] 20 g/m <sup>3</sup> Exposure Routes: Inhalation, ingestion, skin and/or eye contact Target Organ: [10h] 20 g/m <sup>3</sup> LDS0urt rat: [20 00 mg/kg LDS0urt rat		0 0			
Australia NICNAS:    not listed    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    not listed    South Korea TCCA:      Not Not Not TCA:    not listed    South Korea Exist.Chem.Inventory:      Karaa    21.9 g/m²      LC_Lowin type:    21.9 g/m²      LC_South acces    [4h] 39 g/m²      LC_South acces    [4h] 39 g/m²      LCSSouth acces    [4h] 39 g/m²      LCSSouth acces    [4h] 39 g/m²      LDSGurm nt:    20 000 mg/kg      LDSGurm nt:    20 000 mg/kg      LDSGurm nt:    20 000 mg/kg      LDSGurm nouse:    3450 mg/kg      LDSGurm nouse:    3450 mg/kg      LDSGurm nouse:    3450 mg/kg      LDSGurm nouse:    Galfornia Proposition 65 List: not listed      Japan (SLL/RAS:    not listed      Japan (SLL/RAS:    not listed      Japan (SLL/CAS:    not listed  <				nose, neadache, drowsiness, lassitu	de (weakness, exhaustion), harcosis, cou
Japan CSCL/PRTR: not listed Japan PDSCL: not listed South Korea TCCA: not listed Korea Exist. Chem.Inventory: KE-13217 LD50ptrat: 6200 mg/kg LC_Low(ni gg) 219 g/m <sup>3</sup> LC_50pt mail: 1400 mg/kg LC50pt mail: 20000 mg/kg LD50ptrat: 20000 mg/kg				0	
Japan ISHL: listed 20,1%/s20,1%, Article 57-2 (SDS required) South Korea Exist.Chem.Inventory: KE-13217 LC_Owni pg: 21.9 g/m² LC_Lowni human: 4400 mg/kg LCS0h1 mouse : 4401 99 g/m² LCS0h1 mouse : 4401 99 g/m² LDS0g/m fb: 2000 mg/kg LDS0g/m fb: 2000 ppm Karae Exist.Chem.Inventory: KE-31569 LDS0g/m fb: 2000 ppm Karae Exist.Chem.Inventory: KE-31569 Karae Exist.Chem.Inventory: KE-3127 LDS0g/m fb: 2000 ppm LC_Lowni aga: 21.9 g/m² LC_Lowni					yes
South Korea TCCA: not listed Korea Exist. Chem.Inventory: KE-13217 LD50ortrat: 6200 mg/kg LC_Lowing pi LC_S0ht mouse: 1400 mg/kg LC50ht mouse: 1401 39 g/m² LC50ht mouse: 1401 39 g/m² LC50ht mouse: 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C Chemical: sodium perchlorate CAIsNo:: 7601-89-0 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed Japan PDSCL: not listed Japan ISHL: not listed California Proposition 65 List: not listed South Korea TCCA: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed Japan PDSCL: not listed Japan ISHL: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed California Proposition 65 List: not listed Japan ISHL: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed California Proposition 65 List: not listed Korea Exist. Chem.Inventory: KE-31569 LD50ort rat: 2100 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethano/ CAS No:: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitud (weakness, exhaustion), narcosis; c liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed Japan PSCL; not listed Japan ISHL: listed 20, 140, 21, 40, 21, 40, 40, 140, 40, 40, 140, 40, 40, 40, 40, 40, 40, 40, 40, 40					
Korea Exist.Chem.Inventory:    KE-13217      USDort min:    21.9 g/m²      LC_Cown type:    21.9 g/m²      LCSOM mouse:    [4h] 39 g/m²      LDSOard mouse:    3450 mg/kg      LDSOard mouse:    3450 mg/kg      LDSOard mouse:    3450 mg/kg      LDSOARD motion:    [1oh] 20 g/m²      LDSOARD mouse:    3450 mg/kg      LDSOARD mouse:    CAS No.: 7601-89-0      SCA Inventory:    listed      Japan CSCL/PRTR:    not listed      Australia NICNAS:    not listed      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    Ke-31569      LDSOarm i:    2100 mg/kg      LDSOarm i:    2100 mg/kg      LDSOarm i:    551 mg/kg      Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.      F    Chemicai:    ethanol      CA: Newntory:    listed    Calfornia Proposition 65 List: not listed      Acute Effects: Cause after oral intake, impairments of health when ingested in				, Article 57-2 (SDS required)	
LD50ort rat: 6200 mg/kg LC_Lowith pap: 219 g/m <sup>2</sup> LC_Solvin thm: 1400 mg/kg LC50h thm couse: 14h 39 g/m <sup>2</sup> LD50ort mouse: 2450 mg/kg LD50ort mouse: 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C Chemical: sodium perchlorate CAS No.: 7601-89-0 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan SHL: not listed, Japan PDSCL: not listed Japan Fisht: not listed LD50ort mate: 2100 mg/kg LD50ort mate: 20000 mg/kg LD50ort matee: 3450 mg/kg					
LC_Lowint gg: 21.9 g/m <sup>3</sup> LC_Solvin mo: 1400 mg/kg LCSOlvin mouse: [4h] 39 g/m <sup>4</sup> LCSOlvin mouse: [4h] 39 g/m <sup>4</sup> LCSOlvin mouse: 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C Chemical: sodium perchlorate CAS No: 7601-89-0 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed Australia NICNAS: not listed South Korea TCCA: not listed Korea Exist Chem.Inventory: KE-31569 LDSOg/mus: 551 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: mol intation eyes, skin, nose, headache, drowsiness, lassitude (weakness, exhaustion), narcosis; o liver damage; anemi, reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan SSCL/PRTR: not listed, Japan PDSCL: not listed Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan CSCL/PRTR: not listed, Japan PDSCL: not listed LC_Lowing pg: 21.9 g/m <sup>3</sup> LC_Lowing pg: 21.9 g/m <sup>3</sup> LC_Lowing pg: 21.9 g/m <sup>3</sup> LC_Lowing pg: 21.9 g/m <sup>3</sup> LC_SOlm mouse: I400 mg/kg LDSOgran inciae: 3450 mg/kg TRGS 905 (DE): K5, M5, RF C			: KE-13217		
LC_Lowonthmn: 1400 mg/kg LC50bit mouse: [4h] 39 g/m <sup>3</sup> LC50bit rat: [10h] 20 g/m <sup>3</sup> LD50orat mouse : 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C Chemical: sodium perchlorate CAIs No.: 7601-89-0 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed South Korea TCCA: not listed Correa CA: 100 mg/kg LD50ort mail: 2100 mg/kg LD50ort mail: 2100 mg/kg LD50ort mail: 2100 mg/kg LD50ort mail: 2100 mg/kg LD50ort mail: 551 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethano/ CAIs No.: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; co liver damage; anemia; reporductive, tratogenic Australia NICNAS: not listed 20,1%/20,1%, Article 57-2 (SDS required) South Korea TCCA: not listed Japan ISHL: Instead 20,1%/20,1%, Article 57-2 (SDS required) South Korea TCCA: not listed LG50hit mouse: 410 39 g/m <sup>3</sup> LC50hit mouse: 3450 mg/kg TRGS 905 (DE): K5, M5, RF C		LD50orl rat :	6200 mg/kg		
LC_LoWorthmn: 1400 mg/kg LC50hitmouse: [4h] 39 g/m <sup>3</sup> LC50hitmouse: 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C Chemical: sodium perchlorate California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Japan ISHL: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed South Korea TCCA: not listed Correat CSCL/PRTR: not listed LD500gr mus: 551 mg/kg LD500gr mus: 551 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol Disted California Proposition 65 List: not listed Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; co liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan ISHL: not listed Canada CEPA 1999: DSL yes Japan SCL/PRTR: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed Japan PDSCL: not listed Japan ISHL: listed 30,1%/20,1%, Article 57-2 (SDS required) South Korea TCCA: not listed LC_LoWitigg: 21.9 g/m <sup>3</sup> LC_S0hitmouse: [4h] 39 g/m <sup>3</sup> LC_S0hitmouse: 3450 mg/kg LC_S0hitmouse: 3450 mg/kg LC_S0hitmouse: 3450 mg/kg		LC Lowihl gpg:	21.9 g/m³		
LC5Opti mouse : [4h] 39 g/m <sup>2</sup> LC5Opti mat: 2000 mg/kg LD5Ogram mouse : 3450 mg/kg TRGS 905 (DE): K5, M5, RF C Chemical: sodium perchlorate CAS No: 7601-89-0 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed Japan CSCL/PRTR: not listed South Korea TCCA: not listed LD50g/r nat: 2100 mg/kg LD50g/r nat: 5151 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol CAS No.: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, nespiratory system, central nervous system, liver, blood, reproductive system Symptoms: intrituin eyes, skin, nose, headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed California Proposition 65 List: not listed Japan ISHL: listed 20,1%/20,1%, Article 57-2 (SDS required) South Korea TCCA: not listed Japan ISHL: listed 20,1%/20,1%, Article 57-2 (SDS required) South Korea TCCA: not listed LD50g/m nt : 4000 mg/kg LC_LoWnit hpm : 1400 mg/kg LC_S0bin incuse : (Hn) 39 g/m <sup>3</sup> LC50bin incuse : (Hn) 39 g/m <sup>3</sup> LC50bin incuse : 3450 mg/kg LD50g/m nt : 20 000 mg/kg LD50g/m nt : 20 000 mg/kg LD50g/m nt : 20 000 mg/kg LD50g/m nt : 1000 mg/kg LD50g/m nt : 20 000 mg/kg LD50g/m nt : 20 000 mg/kg LD50g/m nt : 20 000 mg/kg LD50g/m nt : 1000 mg/kg LD50g/m nt : 1000 mg/kg LD50g/m nt : 20 000 mg/kg LD50g/m nt : 1000 mg/kg LD50g/m nt		LC Loworl hmn :	1400 mg/kg		
LC50Juriari: [10h] 20 g/m <sup>3</sup> LD50Juriari: 20 000 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C Chemical: sodium perchlorate CAS No.: 7601-89-0 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed South Korea TCCA: not listed Korea Exist. Chem. Inventory: K5-31569 LD50gr mus: 51569 LD50gr mus: 51569 LD50gr mus: 51569 CAS No.: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol CAS No.: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: wiritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed Canada CEPA 1999: DSL yes Japan SHL: isted to 10% / Apan PDSCL: not listed Korrea Exist. Chem. Inventory: KE-13217 LD500 ring; 21.9 g/m <sup>3</sup> LC500 mouse: 410.0 mg/kg LC500 mouse: 3450 mg/kg LC500 mouse: 3450 mg/kg LC500 mouse: 3450 mg/kg		LC50 <sub>ibl mouse</sub> :	[4h] 39 g/m <sup>3</sup>		
LD50 <sub>oral mouse</sub> : 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C Chemical: sodium perchlorate CAS No.: 7601-89-0 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed South Korea TCCA: not listed Korea Exist Chem.Inventory: KE-31569 LD50 <sub>0</sub> m rus : 551 mg/kg LD50 <sub>0</sub> m rus : 551 mg/kg LD50 <sub>0</sub> m rus : 551 mg/kg California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: intration eyes, skin, nose, headache, drowsiness, lassitude (weakness, exhaustion), narcosist, c liver damage; anemia; reproductive, tratogenic Australia NICNAS: not listed Japan PSCL: not listed Australia NICNAS: not listed, Japan PSCL: not listed Australia NICNAS: not listed, Japan PSCL: not listed Australia NICNAS: not listed, Japan PSCL: not listed Korea Exist Chem.Inventory: KE-13217 LD50 <sub>0</sub> mt rat: E219 g/m² LC_LoWent hmn : 1400 mg/kg LC500ti mouse: [10] 20 g/m² LC_LoWent hmn : 1400 mg/kg LC500ti mouse: [41] 39 g/m² LC500ti mouse: [41] 39 g/		LC50 <sub>ibl rat</sub> :			
LD50 <sub>oral mouse</sub> : 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C Chemical: sodium perchlorate CAS No.: 7601-89-0 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed Japan PDSCL: not listed Japan SHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31569 LD50 <sub>0</sub> r rat: 2100 mg/kg LD50 <sub>0</sub> r rat: 61 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol CAS No.: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: infriation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c liver damage; anemia; reproductive, leratogenic Australia NICNAS: not listed Canad CEPA 1999: DSL yes Japan ISHL: listed 20,1%/z0,1%, Article 57-2 (SDS required) South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217 LD50 <sub>0</sub> rtrat: 6200 mg/kg LC_Lowint igg: 21.9 g/m <sup>3</sup> LCS0 <sub>0</sub> In rat: [10h] 20 g/m <sup>3</sup> LCS0 <sub>0</sub> In rat: [10h] 39 g/m <sup>3</sup> LCS0 <sub>0</sub> In rat: [10h] 39 g/m <sup>3</sup> LCS0 <sub>0</sub> In rat: [10h] 39 g/m <sup>3</sup> LCS0 <sub>0</sub> In rat: [10h] 20 g/m <sup>3</sup> LCS0 <sub>0</sub> In rate: [1		1 D50drm rbt			
Chemical:    sodium perchlorate    CAS No.: 7601-89-0      TSCA Inventory:    listed    California Proposition 65 List: not listed      Australia NICNAS:    not listed, Japan PDSCL: not listed      Japan (SCL/PRTR:    not listed, Japan PDSCL: not listed      Japan ISHL:    not listed, Japan PDSCL: not listed      South Korea TCCA:    not listed      DS0prmus:    551 mg/kg      Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.      CAS No.: 64-17-5      TSCA Inventory:    listed      California Proposition 65 List: not listed      Acute Effects:    Cause after oral intake, impairments of health when ingested in small quantities.      CAS No.: 64-17-5      TSCA Inventory:    listed    California Proposition 65 List: not listed      ACGH:    1000 ppm    Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system    Symptoms:      Symptoms:    ristralia NICNAS:    not listed    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    not listed, Japan PDSCL: not listed    Japan SHL:      Japan ISHL:    listed					
TSCA Inventory:    listed    California Proposition 65 List: not listed      Australia NICNAS:    not listed    Canada CEPA 1999: DSL Yes      Japan CSCL/PRTR:    not listed    Japan SHL:      not listed    Not isted    Korea TCCA:      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-31569      LD50gr mus:    S51 mg/kg      Acute Effects:    Cause after oral intake, impairments of health when ingested in small quantities.      75 mL MC4      Chemical:    ethanol      CAGIH:    1000 ppm      Exposure Routes:    inhaliton, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; o      liver damage; anemia; reproductive, teratogenic    Canada CEPA 1999: DSL yes      Japan ISHL:    Iisted California Proposition 65.2 ST required)      South Korea TCCA:    not listed    Canada CEPA 1999: DSL yes      Japan SCCL/PRTR:    not listed    Canada CEPA 1999: DSL yes      Japan ISHL:    listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)    South Korea TCC		TRGS 905 (DE):	K5, M5, R <sub>F</sub> C		
TSCA Inventory:    listed    Califormia Proposition 65 List: not listed      Australia NICNAS:    not listed    Canada CEPA 1999: DSL Yes      Japan CSCL/PRTR:    not listed      South Korea TCCA:    not listed      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-31569      LD50 <sub>0</sub> rt rat:    251 mg/kg      Acute Effects:    Cause after oral intake, impairments of health when ingested in small quantities.      CAS No.: 64-17-5      TS mL MC4      Chemical:    ethanol      CACGHC:    1000 ppm      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; o      liver damage; anemia; reproductive, teratogenic    Australia NICNAS:      Australia NICNAS:    not listed      Japan SCL/PRTR:    not listed <td></td> <td>Chemical sodiur</td> <td>n perchlorate</td> <td></td> <td>CAS No : 7601-89-0</td>		Chemical sodiur	n perchlorate		CAS No : 7601-89-0
Australia NICNÅS:    not listed    Canada CEPA 1999: DSL Yes      Japan CSCL/PRTR:    not listed, Japan PDSCL: not listed      Japan ISHL:    not listed      Korea EXSt.Chem.Inventory:    K=31569      LD50 <sub>ort rat</sub> :    2100 mg/kg      LD50 <sub>pr mus</sub> :    551 mg/kg      Acute Effects:    Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical:    ethanol      CAS No.: 64-17-5      TSCA Inventory:    listed      California Proposition 65 List: not listed      ACGIH:    1000 ppm      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c      Ilver damage; anemia; reproductive, teratogenic    Australia NICNAS:      Australia NICNAS:    not listed    Canada CEPA 1999: DSL yes      Japan SCL/PRTR:    not listed apan PDSCL: not listed    Japan CSCL/PRTR:      Japan ISHL:    listed apan PSL 20, 1%, Article 57-2 (SDS required)    South Korea				California Proposition 65 List: not l	
Japan CSCL/PRTR:    not listed, Japan PDSCL: not listed      Japan ISHL:    not listed      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-31569      LD50 <sub>off</sub> rat:    2100 mg/kg      LD50 <sub>off</sub> rat:    551 mg/kg      Acute Effects:    Cause after oral intake, impairments of health when ingested in small quantities.      75 mL MC4      CAS No.: 64-17-5      TSCA Inventory:    listed    California Proposition 65 List: not listed      ACGIH:    1000 ppm    Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; ce      liver damage; anemia; reproductive, teratogenic    Canada CEPA 1999: DSL yes      Japan ISHL:    listed Japan PDSCL: not listed      Japan ISHL:    6200 mg/kg      LC_LOWinhiggi    21.9 g/m³      LC_LOWork Imouse:					
Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13569 LD50 <sub>ort rat</sub> : 2100 mg/kg LD50 <sub>pr mus</sub> : 551 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol CAS No.: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Korea Exist.Chem.Inventory: KE-13217 LD50 <sub>oft rat</sub> : 6200 mg/kg LC_Lowfini gpg: 21, 9 g/m <sup>3</sup> LC_Lowori hmn: 1400 mg/kg LC50 <sub>lh</sub> trat: [10h] 20 g/m <sup>3</sup> LC50 <sub>lh</sub> trat: [10h] 20					res
South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-31569      LDSOopr rat:    2100 mg/kg      LDSOipr mus:    551 mg/kg      Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.      75 mL MC4      Chemical:    ethanol      CAS No.: 64-17-5      TSCA Inventory:    listed      California Proposition 65 List: not listed      ACGIH:    1000 ppm      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c      liver damage; anemia; reproductive, teratogenic    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    not listed      Japan ISHL:    listed 20,1%/20,1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory: KE-13217    LDS0ofr rat:      LDS0ofr rat:    6200 mg/kg      LC_Lowint Igpg:    21 9 g/m³      LC_Lowint Igpg:    21 9 g/m³      LC_S0hit rat:    [10h] 20 g/m³ <td></td> <td>•</td> <td></td> <td>JSCL: not listed</td> <td></td>		•		JSCL: not listed	
Korea Exist. Chem.Inventory: KE-31569      LD50 <sub>orf rat</sub> :    2100 mg/kg      LD50 <sub>inf mus</sub> :    551 mg/kg      Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.      75 mL MC4      Chemical:    ethanol      CAS No.: 64-17-5      TSCA Inventory:    listed      California Proposition 65 List: not listed      ACGIH:    1000 ppm      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c      liver damage; anemia; reproductive, teratogenic    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    not listed    Canada CEPA 1999: DSL yes      Japan ISHL:    listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-13217      LD50ori rat:    6200 mg/kg      LC_Lownin Imm:    1400 mg/kg      LC_Solit mouse :    [4h] 39 g/m³      LC50hir mouse :    20.900 mg/kg      LC50hir mouse :    3					
LD50 <sub>ort rat</sub> : 2100 mg/kg LD50 <sub>ipr mus</sub> : 551 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol CAS No.: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: listed 20, 1%/c2, 1%, Article 57-2 (SDS required) South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217 LD50 <sub>ort rat</sub> : 6200 mg/kg LC_Lowini gpg: 21.9 g/m <sup>3</sup> LC50 <sub>bhl</sub> mouse: [4h] 39 g/m <sup>3</sup> LC50 <sub>bhl</sub> mouse: [4h] 39 g/m <sup>3</sup> LC50 <sub>bhl</sub> mouse: 3450 mg/kg TRGS 905 (DE): K5, M5, RF C		South Korea TCCA:			
LD50 <sub>lpr mus</sub> : 551 mg/kg <sup>-</sup> Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. <b>75 mL MC4</b> Chemical: ethanol CAS No.: 64-17-5 TSCA Inventory: listed California Proposition 65 List: not listed ACGIH: 1000 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: listed 20, 1%, Article 57-2 (SDS required) South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217 LD50 <sub>off rat</sub> : 6220 mg/kg LC_LoWint Imouse : [4h] 39 g/m <sup>3</sup> LC50 <sub>hhl</sub> rat : [10h] 20 g/m <sup>3</sup> LD50 <sub>ofr at</sub> (10h] 2					
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.      75 mL MC4      Chemical:    ethanol    CAS No.: 64-17-5      TSCA Inventory:    listed    California Proposition 65 List: not listed      ACGIH:    1000 ppm      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c      liver damage; anemia; reproductive, teratogenic    Canada CEPA 1999: DSL yes      Australia NICNAS:    not listed    Canada CEPA 1999: DSL yes      Japan ISHL:    listed >0,1%/≥0,1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-13217      LD50ort rat:    6200 mg/kg      LC_Lowint ggg:    21.9 g/m³      LC_Solhi rouse:    [4h] 38 g/m³      LCSOlphi rat:    [10h] 20 g/m³      LD50dr rat:    02000 mg/kg      LD50dr rat:    [10h] 20 g/m³      LD50dr rat:    [10h] 20 g/m³      LD50dr rat:    [3450 mg/kg      LD50dr rat		LD50 <sub>orl rat</sub> :	2100 mg/kg		
75 mL MC4      Chemical:    ethanol    CAS No.: 64-17-5      TSCA Inventory:    listed    California Proposition 65 List: not listed      ACGIH:    1000 ppm      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c      liver damage; anemia; reproductive, teratogenic      Australia NICNAS:    not listed      Japan CSCL/PRTR:    not listed, Japan PDSCL: not listed      Japan ISHL:    listed 20,1%/20,1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-13217      LD50 <sub>ort1 rat</sub> :    6200 mg/kg      LC_LowIni gpg:    21.9 g/m³      LC_Solth mouse:    [4h] 39 g/m³      LO50 <sub>ort1 rat</sub> :    20.000 mg/kg      LD50 <sub>ort1 rat</sub> :		LD50ipr mus :			
Chemical:ethanolCAS No.: 64-17-5TSCA Inventory:listedCalifornia Proposition 65 List: not listedACGIH:1000 ppmExposure Routes:inhalation, ingestion, skin and/or eye contactTarget Organs:Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive systemSymptoms:irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cIver damage; anemia; reproductive, teratogenicAustralia NICNAS:not listedAustralia NICNAS:not listed, Japan PDSCL: not listedJapan CSCL/PRTR:not listed, Japan PDSCL: not listedJapan ISHL:listed >0,1%/≥0,1%, Article 57-2 (SDS required)South Korea TCCA:not listedKorea Exist.Chem.Inventory:KE-13217LD50 <sub>orl rat</sub> :6200 mg/kgLC_Lowini gpg:21.9 g/m³LC50ihi mouse :[4h] 39 g/m³LC50ihi mouse :[4h] 39 g/m³LD50 <sub>orl rat</sub> :20 000 mg/kgLD50 <sub>orl rat</sub> :20 000 mg/kgLD50 <sub>orl rat</sub> :20 000 mg/kgLD50 <sub>orl rat</sub> :3450 mg/kgLD50 <sub>orl mouse</sub> :3450 mg/kgLD50 <sub>orl mouse</sub> :3450 mg/kg		Acute Effects: Cause after c	ral intake, impairmen	ts of health when ingested in small qu	uantities.
TSCA Inventory:listedCalifornia Proposition 65 List: not listedACGIH:1000 ppmExposure Routes:inhalation, ingestion, skin and/or eye contactTarget Organs:Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive systemSymptoms:irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cIver damage; anemia; reproductive, teratogenicCanada CEPA 1999: DSL yesAustralia NICNAS:not listedCanada CEPA 1999: DSL yesJapan CSCL/PRTR:not listed, Japan PDSCL: not listedJapan ISHL:listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)South Korea TCCA:not listedKorea Exist.Chem.Inventory:KE-13217LD50 <sub>ort1 rat</sub> :6200 mg/kgLC_Lowihi gpg:21.9 g/m³LC_S0ihl mouse :[10h] 20 g/m³LD50 <sub>ort1 mat</sub> :20 000 mg/kgLD50 <sub>ort1 mat</sub> :20 000 mg/kgLD50 <sub>ort1 max</sub> :3450 mg/kgTRGS 905 (DE):K5, M5, RF C	75	mL MC4			
ACGIH:    1000 ppm      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c      liver damage; anemia; reproductive, teratogenic      Australia NICNAS:    not listed    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    not listed, Japan PDSCL: not listed      Japan ISHL:    listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-13217      LD50 <sub>ort rat</sub> :    6200 mg/kg      LC_Lowinh gpg:    21.9 g/m³      LCS0ihl mouse :    [4h] 39 g/m³      LC50 <sub>ihl</sub> rat:    [10h] 20 g/m³      LD50 <sub>ortal mouse</sub> :    3450 mg/kg			bl		
ACGIH:    1000 ppm      Exposure Routes:    inhalation, ingestion, skin and/or eye contact      Target Organs:    Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system      Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c      liver damage; anemia; reproductive, teratogenic      Australia NICNAS:    not listed    Canada CEPA 1999: DSL yes      Japan CSCL/PRTR:    not listed, Japan PDSCL: not listed      Japan ISHL:    listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-13217      LD50 <sub>0rl rat</sub> :    6200 mg/kg      LC_Lowini gpg:    21.9 g/m³      LCSOlihl mouse :    [4h] 39 g/m³      LC50 <sub>lihl rat</sub> :    [10h] 20 g/m³      LD50 <sub>oral mouse</sub> :    3450 mg/kg      LD50 <sub>oral mouse</sub> :    3450 mg/kg      LD50 <sub>oral mouse</sub> :    X5, M5, RF C		TSCA Inventory:	listed	California Proposition 65 List: not I	listed
Exposure Routes:inhalation, ingestion, skin and/or eye contactTarget Organs:Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive systemSymptoms:irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cliver damage; anemia; reproductive, teratogenicAustralia NICNAS:not listedCanada CEPA 1999:DSL yesJapan CSCL/PRTR:not listed, Japan PDSCL: not listedJapan ISHL:listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)South Korea TCCA:not listedKorea Exist.Chem.Inventory:KE-13217LD50 <sub>off</sub> rat:6200 mg/kgLC_Lowinhgpg:21.9 g/m³LC50 <sub>bhl mouse</sub> :[4h] 39 g/m³LC50 <sub>bhl rat</sub> :[10h] 20 g/m³LD50 <sub>off rat</sub> :20 000 mg/kgLD50 <sub>off rat</sub> :3450 mg/kgLD50 <sub>off rat</sub> :3450 mg/kgTRGS 905 (DE):K5, M5, RF C		5		·	
Target Organs:Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive systemSymptoms:irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cliver damage; anemia; reproductive, teratogenicAustralia NICNAS:not listedJapan CSCL/PRTR:not listed, Japan PDSCL: not listedJapan ISHL:listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)South Korea TCCA:not listedKorea Exist.Chem.Inventory:KE-13217LD50 <sub>orl rat</sub> :6200 mg/kgLC_Lowinl gpg:21.9 g/m³LC50 <sub>ihl mouse</sub> :[4h] 39 g/m³LC50 <sub>ihl rat</sub> :20 000 mg/kgLD50 <sub>orral mouse</sub> :3450 mg/kgTarget for the system3450 mg/kgTRGS 905 (DE):K5, M5, RF C				n. skin and/or eve contact	
Symptoms:    irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; c      liver damage; anemia; reproductive, teratogenic      Australia NICNAS:    not listed      Japan CSCL/PRTR:    not listed      Japan ISHL:    listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)      South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-13217      LD50 <sub>orl rat</sub> :    6200 mg/kg      LC_Lowihi gpg:    21.9 g/m³      LC50 <sub>ihl mouse</sub> :    [4h] 39 g/m³      LC50 <sub>ihl rat</sub> :    [10h] 20 g/m³      LD50 <sub>oral mouse</sub> :    3450 mg/kg      LD50 <sub>oral mouse</sub> :    3450 mg/kg      LD50 <sub>oral mouse</sub> :    3450 mg/kg      LD50 <sub>oral mouse</sub> :    Stype for the formation of					iver, blood, reproductive system
liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required) South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217 LD50 <sub>orl rat</sub> : 6200 mg/kg LC_Lowihl gpg: 21.9 g/m <sup>3</sup> LC_Lowihl mouse: [4h] 39 g/m <sup>3</sup> LC50 <sub>ihl mouse</sub> : [4h] 39 g/m <sup>3</sup> LD50 <sub>orl mouse</sub> : 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C					
Australia NICNAS:not listedCanada CEPA 1999: DSL yesJapan CSCL/PRTR:not listed, Japan PDSCL: not listedJapan ISHL:listed $\geq 0, 1\%/\geq 0, 1\%$ , Article 57-2 (SDS required)South Korea TCCA:not listedKorea Exist.Chem.Inventory:KE-13217LD50 <sub>orl rat</sub> :6200 mg/kgLC_Lowihl gpg:21.9 g/m³LC_Loworl hmn:1400 mg/kgLC50 <sub>ihl mouse</sub> :[4h] 39 g/m³LC50 <sub>ihl rat</sub> :20 000 mg/kgLD50 <sub>orl mouse</sub> :3450 mg/kgTRGS 905 (DE):K5, M5, RF C			<b>,</b> , ,		
Japan CSCL/PRTR:not listed, Japan PDSCL: not listedJapan ISHL:listed $\geq 0,1\%/\geq 0,1\%$ , Article 57-2 (SDS required)South Korea TCCA:not listedKorea Exist.Chem.Inventory:KE-13217LD50 <sub>orl</sub> rat:6200 mg/kgLC_Lowihl gpg:21.9 g/m³LC_Loworl hmn:1400 mg/kgLC50 <sub>ihl</sub> mouse :[4h] 39 g/m³LC50 <sub>ihl</sub> rat:20 000 mg/kgLD50 <sub>orl mot</sub> :20 000 mg/kgLD50 <sub>orl mot</sub> :3450 mg/kgTRGS 905 (DE):K5, M5, RF C				Canada CEDA 1000, DOL	Voc
Japan ISHL:listed $\geq 0, 1\%/\geq 0, 1\%$ , Article 57-2 (SDS required)South Korea TCCA:not listedKorea Exist.Chem.Inventory:KE-13217LD50orl rat :6200 mg/kgLC_Lowihl gpg :21.9 g/m³LC_Loworl hmn :1400 mg/kgLC50ihl mouse :[4h] 39 g/m³LC50ihl rat :20 000 mg/kgLD50drm rbt :20 000 mg/kgLD50drm rbt :20 000 mg/kgLD50oral mouse :3450 mg/kgTRGS 905 (DE):K5, M5, RF C					усь
South Korea TCCA:    not listed      Korea Exist.Chem.Inventory:    KE-13217      LD50 <sub>orl rat</sub> :    6200 mg/kg      LC_Lowihl gpg:    21.9 g/m³      LC_Loworl hmn :    1400 mg/kg      LC50ihl mouse :    [4h] 39 g/m³      LC50ihl mouse :    [10h] 20 g/m³      LD50 <sub>orl mouse</sub> :    3450 mg/kg      TRGS 905 (DE):    K5, M5, RF C					
Korea Exist.Chem.Inventory:    KE-13217      LD50 <sub>orf rat</sub> :    6200 mg/kg      LC_Low <sub>ihl gpg</sub> :    21.9 g/m³      LC_Low <sub>orl hmn</sub> :    1400 mg/kg      LC50 <sub>ihl mouse</sub> :    [4h] 39 g/m³      LC50 <sub>ihl rat</sub> :    [10h] 20 g/m³      LD50 <sub>oral mouse</sub> :    20 000 mg/kg      LD50 <sub>oral mouse</sub> :    3450 mg/kg      TRGS 905 (DE):    K5, M5, RF C				, Article 57-2 (SDS required)	
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LC_Lowihl gpg:    21.9 g/m³      LC_Loworl hmn :    1400 mg/kg      LC50ihl mouse :    [4h] 39 g/m³      LC50ihl rat :    [10h] 20 g/m³      LD50drm rbt :    20 000 mg/kg      LD50oral mouse :    3450 mg/kg      TRGS 905 (DE):    K5, M5, RF C					
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LC50 <sub>ihl mouse</sub> :    [4h] 39 g/m³      LC50 <sub>ihl rat</sub> :    [10h] 20 g/m³      LD50 <sub>drm rbt</sub> :    20 000 mg/kg      LD50 <sub>oral mouse</sub> :    3450 mg/kg      TRGS 905 (DE):    K5, M5, R <sub>F</sub> C		LC Loworl hmn :			
LC50 <sub>ihl rat</sub> :    [10ĥ] 20 g/m³      LD50 <sub>drm rbt</sub> :    20 000 mg/kg      LD50 <sub>oral mouse</sub> :    3450 mg/kg      TRGS 905 (DE):    K5, M5, R <sub>F</sub> C					
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LD50 <sub>oral mouse</sub> : 3450 mg/kg TRGS 905 (DE): K5, M5, R <sub>F</sub> C					
TRGS 905 (DE): K5, M5, R <sub>F</sub> C					
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REF: 74	44400.1	NucleoMag Plant (1x96)	Page: 12/1
Printing	g date: 12.05.2021	Date of issue: 04.02.2021	_
		dium perchlorate	CAS No.: 7601-89-0
	TSCA Inventory: Australia NICNAS:	listed California Proposition not listed Canada CEP/	A 1999: DSL Yes
	Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
	Japan ISHL: South Korea TCCA:	not listed not listed	
	Korea Exist.Chem.Inven		
	LD50 <sub>orl rat</sub> :	2100 mg/kg	
	LD50 <sub>ipr mus</sub> : Acute Effects: Cause aft	551 mg/kg er oral intake, impairments of health when ingest	ed in small quantities.
	125 mL MC5	emicals/mixture < 1%	CAS No.
	Chemical: ch TSCA Inventory:	all listed, <1%	CAS No.: -
	Korea Exist.Chem.Inven		
	00 ml M00		
	30 mL MC6		
	Chemical: ch TSCA Inventory:	emicals/mixture < 1% all listed, <1%	CAS No.: -
	Korea Exist.Chem.Inven		
	0.6-20 mg RNase A (ly	(0)	
	• •	Vase	CAS No.: 9001-99-4
	TSCA Inventory:	listed	
	Japan CSCL/PRTR:	not listed	
	Japan ISHL: Korea Exist.Chem.Inven	not listed torv: KE-30341	
	LD50intraperitonaeal rat :	392 mg/kg	
		ter impairments of health when ingested in small of	
	symptoms or breathing of		l contact of small amounts. May cause allergy or asthma
	ION 12: Ecological i	information	
2.1	Toxicity		
	Following information is va	alid for pure substances.	
	3 mL C-Beads Chemical:	magnetic particles, suspended in water	CAS No.: -
	Storage class (VCI)		CA3 No
	60 mL MC1		
	Chemical:	sodium chloride	CAS No.: 7647-14-5
	Water hazard class Storage class (VCI)		
	50 mL MC2		
	<b>-</b> · · ·	2-propanol	CAS No.: 67-63-0
	Chemical:		
	Chemical: PNEC(fresh water) : PNEC = Predicted No Ef	140.9 mg/L	
	PNEC(fresh water)	140.9 mg/L	
	PNEC(fresh water) : PNEC = Predicted No Ef	140.9 mg/L ffected Concentration 1400 mg/L 13.3 g/L	

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1

3

0.05

EC5: 1050 mg/L

WGK No.: 0135

Dispersion coefficient(octanol-water):

EC10<sub>pseudomonas putita/16h</sub> : Water hazard class (DE):

Storage class (VCI):



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

REF: 744		NucleoMag Plant (1x96)	Page: 13/1
Printing	date: 12.05.2021	Date of issue: 04.02.2021	
	75 mL MC3 Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concer	0.96 mg/L tration	CAS No.: 64-17-5
	LC50daphnia magna/48h : LC50pimephales promelas/96h : LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient <sub>(octanol-wat</sub> Storage class (VCI):	>100 mg/L 13400 - 15100 mg/L [48h] 8140 mg/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096	
	Chemical: sodium p Water hazard class (DE): Storage class (VCI):	erchlorate 1 WGK No.: 0382 12	CAS No.: 7601-89-0
	75 mL MC4 Chemical: ethanol PNEC(fresh water):	0.96 mg/L	CAS No.: 64-17-5
	PNEC = Predicted No Effected Concern LC50daphnia magna/48h : LC50pimephales promelas/96h : LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient(octanol-water) Storage class (VCI):	>100 mg/L 13400 - 15100 mg/L [48h] 8140 mg/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096	
	Chemical: sodium p Water hazard class (DE): Storage class (VCI):	erchlorate 1 WGK No.: 0382 12	CAS No.: 7601-89-0
	<b>125 mL MC5</b> Chemical: chemicals Water hazard class (DE): Storage class (VCI):	s/mixture < 1% 1 12-13	CAS No.: -
	<b>30 mL MC6</b> Chemical: chemicals Water hazard class (DE): Storage class (VCI):	s/mixture < 1% 1 12-13	CAS No.: -
	0.6-20 mg RNase A (lyo) Chemical: RNase Water hazard class (DE): Storage class (VCI):	1 13	CAS No.: 9001-99-4
2.2	Persistence and degradability not necessary		
2.3	Bioaccumulative potential not necessary		
2.4	Mobility in soil not necessary		
2.5	Results of PBT and vPvB asse no data available	essment	

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REF: 744400.1	NucleoMag Plant (1x96)	Page: 14/15
Printing date: 12.05.2021	Date of issue: 04.02.2021	

12.6

Other adverse effects

no additional data available

## 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 (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 number: 14.3 Class: Road transport		UN proper shipping name: Flammable liquid, n.o.s. (2-propanol, ethanol n Packing group: II	nixture)
Classification code:	F1		
Limited Quantity:	1 L	Tunnel restriction code: E	
Excepted Quantity: Air transport	E 2	Special instructions: 640C	
PAX:	353	max. weight PAX: 5 L	
CAO: Maritime transport	364	max. weight CAO: 60 L	
EmS:	F-E, S-E	Storage category: B	

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

- 14.6 Special precautions for user not necessarv
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

# **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

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

Look for your country-specific regulations.

#### 15.2 **Chemical safety assessment** not necessary for these small amounts ---

## **SECTION 16: Other information**

#### 16.1 List of H and P phrases

16.1.1	List of relevant H phrases		
	H225	. Highly flammable liquid and vapour.	
	H226	Flammable liquid and vapour.	
	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.	
16.1.2	List of relevant P phrases		
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P233	Keep container tightly closed.	
	P260D	Do not breathe vapours.	



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REF: 744400.1 Printing date: 12.05.2021		NucleoMag Plant (1x96)	Page: 15/15	
		Date of issue: 04.02.2021		
	P261sh P264W P280sh P301+312 P304+340 P330 P342+311	Avoid breathing dust/vapours. Wash with water thoroughly after handling. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Rinse mouth. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.		
16.2		<b>Fraining advice</b> Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.		
16.3	Only for professional Look about employee Look about employee	Recommended restriction on use Only for professional user. Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.		
16.4	MACHEREY-NAGEL revision time. This do person using this prov appropriateness for a MACHEREY-NAGEL without limitation any product to which the i	Further information MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.		
16.5	Sources of key ( Regulation 453/2010/ Regulation 487/2013/ Regulation 669/2018/ Regulation 1480/2018 TRGS 900, German e SUVA .CH, Limits in a		ΓS	

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

### **Revisions/Updates**

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-08 Adaption of new ethanol denaturation 2016/1867/EU

