

# Kit SDS Cover Sheet For HUVECs

Version 3.0

Revision Date 16.12.2021

Print Date 09.05.2024

### **Product Information**

Commercial : Nucleofector® 2b Kit Product Name Product name : For HUVECs Material number : VPB-1002

### Components

Nucleofector® Vector (0.5 μg/μl in 10mM Tris, pH 8.0; 30μg)	SDS attached
HUVEC Nucleofector® Solution	SDS attached
Supplement 3	SDS attached



### **HUVEC Nucleofector® Solution**

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SECTION 1: Identification of the s	substance/mixture and of the compan	y/undertaking
1.1 Product identifier		
Commercial Product Name	: Nucleofector® 2b Kit	
Product name	: For HUVECs	
1.2 Relevant identified uses of the su	bstance or mixture and uses advised ag	ainst
Use of the Substance/Mixture	: For Research Use Only. Not for use	in diagnostic procedures.
1.3 Details of the supplier of the safe	ty data sheet	
Company	: Lonza Ltd Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland Business Telephone: +41 61 316 81	11
	<b>Lonza Verviers Sprl</b> Parc Industriel de Petit-Rechain BE-4800 Verviers, Belgium Business Telephone: +32 8732 1611	1
	<b>Lonza Cologne GmbH</b> Nattermannallee 1 DE-50829 Köln, Germany Business Telephone: + 49 221 99 19	990
	<b>Lonza Copenhagen ApS</b> Strandhaven 12 DK-2665 Vallensbaek Strand, Denm Business Telephone: + 45 4356 740	
E-mail address Responsible/issuing person	sds@lonza.com	
<b>1.4 Emergency telephone number</b> Emergency telephone number	: Lonza Ltd, CH-4002 Basel, Switzerla Telephone: +41 61 313 94 94 (24h)	and

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.



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#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

Components

Remarks

: No hazardous ingredients

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

#### 4.1 Description of first aid measures

If inhaled	: No special precautions required.	
In case of skin contact	: Wash with water and soap as a precaution. If skin irritation persists, call a physician.	
In case of eye contact	: Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.	
If swallowed	<ul> <li>No hazards which require special first aid measures. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. If you feel unwell, seek medical advice (show the label where possible).</li> </ul>	

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

Symptoms	:	No information available.
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4.3 Indication of any immediate med	lical attention and special treatment nee	ded
Treatment	: No information available.	
SECTION 5: Firefighting measure	es	
5.1 Extinguishing media		
Suitable extinguishing media	: Product is compatible with standard	d fire-fighting agents.
5.2 Special hazards arising from the	substance or mixture	
Hazardous combustion products	: Nitrogen oxides (NOx) Sodium oxides Carbon oxides (Cox)	
	Phosphorus oxides (POx) Sulphur oxides (SOx)	
5.3 Advice for firefighters		
Special protective equipment for firefighters	: In the event of fire, wear self-contain	ined breathing apparatus.
Further information	: The product is not flammable. Use water spray to cool unopened	containers.

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

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions : Wear personal protective equipment.					
6.2 Environmental precautions					
Environmental precautions	: No special environmental precautions required.				
6.3 Methods and material for containme	ent and cleaning up				
Methods for cleaning up	: After cleaning, flush away traces with water.				
6.4 Reference to other sections					
For personal protection see section 8.					
SECTION 7: Handling and storage					
7.1 Precautions for safe handling					
Advice on safe handling	: No special precautions required.				



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Advice on protection against fire an explosion	nd :	No special precautions required.	
Hygiene measures	:	Handle in accordance with good indus practice.	strial hygiene and safety
7.2 Conditions for safe storage, inclu	ding	any incompatibilities	
Requirements for storage areas an containers	d :	No special storage conditions required	d. Store in cool place.
7.3 Specific end use(s)			
Specific use(s)	:	For Nucleofector™ Usage only.	
8.1 Control parameters			
8.1 Control parameters			
3.1 Control parameters Occupational Exposure Limits			
	occul	pational exposure limit values.	
Occupational Exposure Limits	occul	pational exposure limit values.	
Occupational Exposure Limits Contains no substances with c	occul	pational exposure limit values.	
Occupational Exposure Limits Contains no substances with c 3.2 Exposure controls Engineering measures	occut	pational exposure limit values.	
Occupational Exposure Limits Contains no substances with o 3.2 Exposure controls Engineering measures Avoid splashes.	occut :	pational exposure limit values. Tightly fitting safety goggles	
Occupational Exposure Limits Contains no substances with c 8.2 Exposure controls Engineering measures Avoid splashes. Personal protective equipment Eye protection Hand protection	ccut:	Tightly fitting safety goggles	
Occupational Exposure Limits Contains no substances with c 3.2 Exposure controls Engineering measures Avoid splashes. Personal protective equipment Eye protection Hand protection Material	ccul :	Tightly fitting safety goggles Nitrile rubber	
Occupational Exposure Limits Contains no substances with c 8.2 Exposure controls Engineering measures Avoid splashes. Personal protective equipment Eye protection Hand protection	: :	Tightly fitting safety goggles	
Occupational Exposure Limits Contains no substances with c 3.2 Exposure controls Engineering measures Avoid splashes. Personal protective equipment Eye protection Hand protection Material	: : :	Tightly fitting safety goggles Nitrile rubber	red.

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

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Appearance	: Aqueous solution



according to Regulation (EC) No. 1907/2006

### **HUVEC Nucleofector® Solution**

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Colour	:	colourless	
Odour	:	odourless	
Melting point/freezing point	:	ca. 0 °C	
Initial boiling point and boiling range	:	ca. 100 °C	
Flammability	:	no data available	
Upper explosion limit / upper flammability limit	:	no data available	
Lower explosion limit / Lower flammability limit	:	no data available	
Flash point	:	does not flash	
Auto-ignition temperature	:	no data available	
Decomposition temperature	:	no data available	
рН	:	7,1 - 7,3	
Viscosity	:	no data available	
Solubility(ies) Water solubility	:	soluble	
Partition coefficient: n-octanol/water	:	no data available	
Vapour pressure	:	no data available	
Relative density	:	no data available	
Density	:	ca. 1 g/cm3	
Relative vapour density	:	no data available	
Particle characteristics	:	no data available	

## 9.2 Other information

no data available



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SECTION 10: Stability and reactiv	ity		
10.1 Reactivity Stable under recommended storag	e con	ditions.	
<b>10.2 Chemical stability</b> Stable under normal conditions.			
<b>10.3 Possibility of hazardous reaction</b> Hazardous reactions	ns :	Stable under normal conditions.	
<b>10.4 Conditions to avoid</b> Conditions to avoid	:	no data available	
<b>10.5 Incompatible materials</b> Materials to avoid	:	no data available	
<b>10.6 Hazardous decomposition produ</b> No decomposition if stored normall			
SECTION 11: Toxicological inform	natio		
SECTION 11: Toxicological inform	natio		
SECTION 11: Toxicological inform	nation s defi	The substance/mixture does not contain considered to have endocrine disrupting to REACH Article 57(f) or Commission	g properties according Delegated regulation
SECTION 11: Toxicological inform 11.1 Information on hazard classes a 11.2 Information on other hazards Endocrine disrupting properties Assessment	nation s defi	ined in Regulation (EC) No 1272/2008 The substance/mixture does not contain considered to have endocrine disrupting	g properties according Delegated regulation
SECTION 11: Toxicological inform 11.1 Information on hazard classes a 11.2 Information on other hazards Endocrine disrupting properties	nation s defi	The substance/mixture does not contain considered to have endocrine disrupting to REACH Article 57(f) or Commission I (EU) 2017/2100 or Commission Regula	g properties according Delegated regulation tion (EU) 2018/605 at
SECTION 11: Toxicological inform 11.1 Information on hazard classes at 11.2 Information on other hazards Endocrine disrupting properties Assessment Further information	s defi	The substance/mixture does not contain considered to have endocrine disrupting to REACH Article 57(f) or Commission I (EU) 2017/2100 or Commission Regula levels of 0.1% or higher.	g properties according Delegated regulation tion (EU) 2018/605 at
SECTION 11: Toxicological inform 11.1 Information on hazard classes a 11.2 Information on other hazards Endocrine disrupting properties Assessment	s defi	The substance/mixture does not contain considered to have endocrine disrupting to REACH Article 57(f) or Commission I (EU) 2017/2100 or Commission Regula levels of 0.1% or higher.	g properties according Delegated regulation tion (EU) 2018/605 at
SECTION 11: Toxicological inform 11.1 Information on hazard classes at 11.2 Information on other hazards Endocrine disrupting properties Assessment Further information SECTION 12: Ecological information	s defi	The substance/mixture does not contain considered to have endocrine disrupting to REACH Article 57(f) or Commission I (EU) 2017/2100 or Commission Regula levels of 0.1% or higher.	g properties according Delegated regulation tion (EU) 2018/605 at
SECTION 11: Toxicological inform 11.1 Information on hazard classes a 11.2 Information on other hazards Endocrine disrupting properties Assessment Further information SECTION 12: Ecological informati 12.1 Toxicity	s defi	The substance/mixture does not contain considered to have endocrine disrupting to REACH Article 57(f) or Commission I (EU) 2017/2100 or Commission Regula levels of 0.1% or higher. Remarks: No data is available on the pr	g properties according Delegated regulation tion (EU) 2018/605 at



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12.3 Bioaccumulative potential		
Bioaccumulation	: Remarks: no data available	
12.4 Mobility in soil		
Distribution among environmental compartments	: Remarks: no data available	
12.5 Results of PBT and vPvB assess	nent	
Assessment	: This substance/mixture contains no be either persistent, bioaccumulative persistent and very bioaccumulative higher.	e and toxic (PBT), or very
12.6 Endocrine disrupting properties		
Endocrine disrupting potential	: The substance/mixture does not cor considered to have endocrine disrup to REACH Article 57(f) or Commissi (EU) 2017/2100 or Commission Reg levels of 0.1% or higher.	oting properties according on Delegated regulation
12.7 Other adverse effects		
Endocrine disrupting potential	<ul> <li>The substance/mixture does not corr considered to have endocrine disrup to REACH Article 57(f) or Commissi (EU) 2017/2100 or Commission Reg levels of 0.1% or higher.</li> </ul>	oting properties according on Delegated regulation
Additional ecological information	: no data available	

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.



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### **SECTION 14: Transport information**

14.1UN number: Not applicable14.2Proper shipping name: Not applicable14.3Transport hazard class: Not applicable14.4Packing group: Not applicable14.5Environmental hazards: noIMDG-CODENot dangerous goods14.1UN number: Not applicable14.2Proper shipping name: Not applicable14.3Transport hazard class: Not applicable14.4Packing group: Not applicable14.5Environmental hazards: Not applicable14.4Packing group: Not applicable14.5Environmental hazards: Not applicable14.5Environmental hazards: Not applicable14.1UN number: Not applicable14.2Proper shipping name: Not applicable14.1UN number: Not applicable14.2Proper shipping name: Not applicable14.2Proper shipping name: Not applicable
14.1UN number:Not applicable14.2Proper shipping name:Not applicable14.3Transport hazard class:Not applicable14.4Packing group:Not applicable14.5Environmental hazards:Marine pollutant: no::Marine pollutant: no:::Not dangerous goods:14.1UN number::14.2Proper shipping name:Not applicable
14.2Proper shipping name: Not applicable14.3Transport hazard class: Not applicable14.4Packing group: Not applicable14.5Environmental hazards: Marine pollutant: noADR: Not dangerous goods14.1UN number: Not applicable14.2Proper shipping name: Not applicable
14.1 UN number       : Not applicable         14.2 Proper shipping name       : Not applicable
14.2 Proper shipping name : Not applicable
14.3Transport hazard class: Not applicable14.4Packing group: Not applicable14.5Environmental hazards: no
RID : Not dangerous goods
14.1UN number: Not applicable14.2Proper shipping name: Not applicable14.3Transport hazard class: Not applicable14.4Packing group: Not applicable14.5Environmental hazards: no
DOT: Not dangerous goods14.1UN number: Not applicable14.2Proper shipping name: Not applicable14.3Transport hazard class: Not applicable14.4Packing group: Not applicable14.5Environmental hazards: no



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TDG		: Not dangerous goods	
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>	

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b> REACH - Restrictions on the manufacture, placing on the : Not applicable market and use of certain dangerous substances, preparations and articles (Annex XVII)
REACH - Candidate List of Substances of Very High Concern : Not applicable for Authorisation (Article 59).
REACH - List of substances subject to authorisation (Annex Not applicable XIV)
Regulation (EC) No 1005/2009 on substances that deplete the Not applicable ozone layer
Regulation (EC) No 850/2004 on persistent organic pollutants Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable
National regulatory information
Water hazard class (Germany) : WGK 1 slightly hazardous to water Remarks: Classification according to AwSV, Annex 1 (5.2)

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#### 15.2 Chemical safety assessment

not required

### **SECTION 16: Other information**

### Full text of other abbreviations

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE -Acute Toxicity Estimate; AwSV - Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen / Ordinance on facilities for handling substances that are hazardous to water; BPR - Biocidal Product Regulation; bw - Body weight; CAS - Chemical Abstract Service; CLP - Classification Labelling Packaging Regulation, Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL-Derived No Effect Level; DOT Department of Transportation; EC – European Community; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EmS (Emergency Response Procedures for Ships Carrying Dangerous Goods); EN – European Standard; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; EU OEL - European Occupational Exposure Limit; GHS -Globally Harmonized System of Classification and Labelling of Chemicals; GLP - Good Laboratory Practice; GV - Danish Exposure Limits for Substances and Materials; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LOFT - Danish Threshold Limit Value; MAK - German Threshold Limit Value: MARPOL - International Convention for the Prevention of Pollution from Ships: n.o.s. - Not Otherwise Specified; NIOSH/Guide - National Institute of Safety and Health Guidebook; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NTP -National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; PEL - Permissible Exposure Limit; PNEC - Predicted no Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; REL -Recommended Exposure Limit; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; STEL - Short-Term Exposure Limit; TDG - Transportation of Dangerous Goods; TGG -Dutch Threshold Limit Value; TGV - Swedish OEL; TLV Threshold Limit Value; TLV-C - Threshold Limit Value Ceiling; TWA -Time Weighted Average; UDS - Unscheduled DNA Synthesis; UN - United Nations; VLE - Valeurs limites d'exposition professionnelle aux agents chimiques en France; VME - Valeur (Limite) Movenne d'Exposition; VOC - Volatile Organic Compound[s]; WEEL - Workplace Environmental Exposure Level; % w/w Percent weight by weight; %(V) Percent Volume

#### **Further information**

Date format

: dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling,



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use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



### Supplement 3

Version 3.0	Revision Date 16.12.2021	Print Date 09.05.2024
SECTION 1: Identification of the s	substance/mixture and of the compar	ny/undertaking
1.1 Product identifier		
Commercial Product Name	: Nucleofector® 2b Kit	
Product name	: For HUVECs	
1.2 Relevant identified uses of the su	Ibstance or mixture and uses advised ag	jainst
Use of the Substance/Mixture	: For Research Use Only. Not for use	in diagnostic procedures.
1.3 Details of the supplier of the safe	ty data sheet	
Company	: Lonza Ltd Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland Business Telephone: +41 61 316 81	I 11
	<b>Lonza Verviers Sprl</b> Parc Industriel de Petit-Rechain BE-4800 Verviers, Belgium Business Telephone: +32 8732 161	1
	<b>Lonza Cologne GmbH</b> Nattermannallee 1 DE-50829 Köln, Germany Business Telephone: + 49 221 99 1	990
	<b>Lonza Copenhagen ApS</b> Strandhaven 12 DK-2665 Vallensbaek Strand, Denn Business Telephone: + 45 4356 740	
E-mail address Responsible/issuing person	sds@lonza.com	
<b>1.4 Emergency telephone number</b> Emergency telephone number	: Lonza Ltd, CH-4002 Basel, Switzerl Telephone: +41 61 313 94 94 (24h)	

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.



according to Regulation (EC) No. 1907/2006

### Supplement 3

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#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

Components

Remarks

: No hazardous ingredients

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

#### 4.1 Description of first aid measures

If inhaled	: No special precautions required.
In case of skin contact	: Wash with water and soap as a precaution. If skin irritation persists, call a physician.
In case of eye contact	: Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.
If swallowed	<ul> <li>No hazards which require special first aid measures. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. If you feel unwell, seek medical advice (show the label where possible).</li> </ul>

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

Symptoms	:	No information available.
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# Supplement 3

Version 3.0		Revision Date 16.12.2021	Print Date 09.05.2
4.3 Indication of any immediate medica	l at	tention and special treatment needed	
Treatment	:	No information available.	
SECTION 5: Firefighting measures			
5.1 Extinguishing media			
Suitable extinguishing media	:	Product is compatible with standard fire	-fighting agents.
5.2 Special hazards arising from the sul	bst	ance or mixture	
Hazardous combustion products	:	No hazardous combustion products are	known
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	In the event of fire, wear self-contained	breathing apparatus.
Further information	:	The product is not flammable.	
		Use water spray to cool unopened cont	ainers.
<ul> <li>SECTION 6: Accidental release mea</li> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> </ul>	uip :	ment and emergency procedures	equired.
<ul> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> </ul>	uip :	went and emergency procedures Use personal protective equipment. No special environmental precautions re	equired.
<ul> <li>6.1 Personal precautions, protective eq</li> <li>Personal precautions</li> <li>6.2 Environmental precautions</li> </ul>	uip :	went and emergency procedures Use personal protective equipment. No special environmental precautions re	
<ul> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containmental Methods for cleaning up</li> </ul>	uip :	ment and emergency procedures Use personal protective equipment. No special environmental precautions re and cleaning up	
<ul> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containmental Methods for cleaning up</li> </ul>	ent	ment and emergency procedures Use personal protective equipment. No special environmental precautions re and cleaning up	
<ul> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containment Methods for cleaning up</li> <li>6.4 Reference to other sections</li> </ul>	ent	ment and emergency procedures Use personal protective equipment. No special environmental precautions re and cleaning up	
<ul> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containment Methods for cleaning up</li> <li>6.4 Reference to other sections For personal protection see section 8</li> <li>SECTION 7: Handling and storage</li> </ul>	ent	ment and emergency procedures Use personal protective equipment. No special environmental precautions re and cleaning up	
<ul> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containment Methods for cleaning up</li> <li>6.4 Reference to other sections For personal protection see section 8</li> <li>SECTION 7: Handling and storage</li> </ul>	ent	ment and emergency procedures Use personal protective equipment. No special environmental precautions re and cleaning up	
<ul> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containme Methods for cleaning up</li> <li>6.4 Reference to other sections For personal protection see section 8</li> <li>SECTION 7: Handling and storage</li> <li>7.1 Precautions for safe handling</li> </ul>	euip : : : :	ment and emergency procedures Use personal protective equipment. No special environmental precautions re and cleaning up After cleaning, flush away traces with w	
<ul> <li>6.1 Personal precautions, protective eq Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containment Methods for cleaning up</li> <li>6.4 Reference to other sections For personal protection see section 8</li> <li>SECTION 7: Handling and storage</li> <li>7.1 Precautions for safe handling Advice on safe handling</li> <li>Advice on protection against fire and</li> </ul>	euip : : : :	Sement and emergency procedures Use personal protective equipment. No special environmental precautions read and cleaning up After cleaning, flush away traces with w No special precautions required.	ater.



according to Regulation (EC) No. 1907/2006

## **Supplement 3**

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	practice.	
7.2 Conditions for safe storage, in	cluding any incompatibilities	
Requirements for storage areas containers	and : No special storage conditions req	uired. Store in cool place.
7.3 Specific end use(s)		
Specific use(s)	: For Nucleofector™ Usage only.	
SECTION 8: Exposure controls	/personal protection	
8.1 Control parameters		
Occupational Exposure Limits	5	
Contains no substances wi	th occupational exposure limit values.	
8.2 Exposure controls		
Engineering measures Avoid splashes.		
Personal protective equipmer	nt	
	t : Tightly fitting safety goggles	
Personal protective equipmer		
<b>Personal protective equipmer</b> Eye protection Hand protection Material	<ul><li>Tightly fitting safety goggles</li><li>Nitrile rubber</li></ul>	
<b>Personal protective equipmer</b> Eye protection Hand protection	: Tightly fitting safety goggles	
<b>Personal protective equipmer</b> Eye protection Hand protection Material	<ul><li>Tightly fitting safety goggles</li><li>Nitrile rubber</li></ul>	ubstance at the work place.

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Appearance	: Aqueous solution
Colour	: colourless



according to Regulation (EC) No. 1907/2006

## Supplement 3

sion 3.0	Revision Date 16.12.2021 Print Date 09.05.2	
Odour	: odourless	
Melting point/freezing point	: ca. 0 °C	
Initial boiling point and boiling range	: ca. 100 °C	
Flammability	: no data available	
Upper explosion limit / upper flammability limit	: no data available	
Lower explosion limit / Lower flammability limit	: no data available	
Flash point	: no data available	
Auto-ignition temperature	: no data available	
Decomposition temperature Decomposition temperature	: no data available	
рН	: no data available	
Viscosity Viscosity, kinematic	: no data available	
Solubility(ies) Water solubility	: no data available	
Partition coefficient: n-octanol/water	: no data available	
Vapour pressure	: no data available	
Relative density	: no data available	
Density	: ca. 1 g/cm3	
Relative vapour density	: no data available	
Particle characteristics	: no data available	

no data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Stable under recommended storage conditions.



according to Regulation (EC) No. 1907/2006

### **Supplement 3**

Version 3.0	Revision Date 16.12.2021	Print Date 09.05.2024
10.2 Chemical stability		
Stable under normal conditions.		
10.3 Possibility of hazardous reactions		
Hazardous reactions	: Stable under normal conditions.	
10.4 Conditions to avoid		
Conditions to avoid	: no data available	
10.5 Incompatible materials		
Materials to avoid	: no data available	
10.6 Hazardous decomposition products	i	
No decomposition if stored normally.		

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	
Acute oral toxicity	: Remarks: no data available
Acute inhalation toxicity	: Remarks: no data available
Acute dermal toxicity	: Remarks: no data available
Skin corrosion/irritation	Remarks: no data available
Serious eye damage/eye irritation	Remarks: no data available
Respiratory or skin sensitisation	Remarks: no data available
Germ cell mutagenicity Genotoxicity in vitro	: Remarks: no data available
Carcinogenicity	Demosives no doto escilabila
	Remarks: no data available
Reproductive toxicity	
Effects on fertility	: Remarks: no data available
Ref. / 00000027158	SDK_EU/EN



according to Regulation (EC) No. 1907/2006

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Version 3.0		Revision Date 16.12.2021	Print Date 09.05.2
STOT - single exposure			
		Remarks: no data available	
STOT - repeated exposure			
		Remarks: no data available	
1.2 Information on other hazards			
Endocrine disrupting properties			
Assessment	:	The substance/mixture does not considered to have endocrine disruto REACH Article 57(f) or Commis (EU) 2017/2100 or Commission Relevels of 0.1% or higher.	upting properties according sion Delegated regulation
Further information			
		Remarks: No data is available on t	he product itself.
I <b>2.1 Toxicity</b> Toxicity to fish	:	Remarks: no data available	
-			
12.2 Persistence and degradability Biodegradability	:	Result: no data available	
2.3 Bioaccumulative potential			
Bioaccumulation	:	Remarks: no data available	
2.4 Mobility in soil			
Distribution among environmental compartments	:	Remarks: no data available	
2.5 Results of PBT and vPvB assessr	nen	t	
Assessment	:	This substance/mixture contains n be either persistent, bioaccumulati persistent and very bioaccumulativ higher.	ve and toxic (PBT), or very
2.6 Endocrine disrupting properties			
Endocrine disrupting potential	:	The substance/mixture does not considered to have endocrine disr	
Ref. / 00000027158		SDK_EU/EN	Page 19



### **Supplement 3**

Supp	iement 5			
Versio	n 3.0		Revision Date 16.12.2021	Print Date 09.05.202
			to REACH Article 57(f) or Commission (EU) 2017/2100 or Commission Regula levels of 0.1% or higher.	
12.7 0	ther adverse effects			
Er	ndocrine disrupting potential	:	The substance/mixture does not contain considered to have endocrine disruptin to REACH Article 57(f) or Commission (EU) 2017/2100 or Commission Regular levels of 0.1% or higher.	g properties according Delegated regulation
Ad	dditional ecological information	:	no data available	
SECT	ION 13: Disposal consideration	ons		
-	/aste treatment methods			
Pı	roduct	:	Dispose of in accordance with local reg	gulations.
SECT	ION 14: Transport informatio	n		
ΙΑΤΑ			Not dangerous goods	
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards		<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>	
IMDG	-CODE		Not dangerous goods	
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards		<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Marine pollutant: no</li> </ul>	
ADR			Not dangerous goods	
14.1 14 2	UN number Proper shipping name		: Not applicable	



### Supplement 3

Versior	า 3.0	Revision Date 16.12.2021	Print Date 09.05.2024
RID		: Not dangerous goods	
14.1 14.2 14.3 14.4 14.5 DOT	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> <li>Not dangerous goods</li> </ul>	
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>	
TDG		: Not dangerous goods	
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>	

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex		Not applicable



according to Regulation (EC) No. 1907/2006

### **Supplement 3**

Version 3.0	Revision Date 16.12.2021	Print Date 09.05.2024
XIV)		
Regulation (EC) No 1005/ ozone layer	2009 on substances that deplete the Not applicable	e
Regulation (EU) 2019/102 (recast)	1 on persistent organic pollutants Not applicable	e
	/18/EU of the European Parliament and of the Council over volving dangerous substances. Not applicable	on the control of
National regulatory inform	nation	
Water hazard class (Germ	nany) : WGK 1 slightly hazardous to water Remarks: Classification according to Av	wSV, Annex 1 (5.2)
15.2 Chemical safety assess not required	ment	
SECTION 16: Other inform	ation	

### Full text of other abbreviations

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE -Acute Toxicity Estimate; AwSV - Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen / Ordinance on facilities for handling substances that are hazardous to water; BPR - Biocidal Product Regulation; bw - Body weight; CAS - Chemical Abstract Service; CLP - Classification Labelling Packaging Regulation, Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL-Derived No Effect Level; DOT - Department of Transportation; EC - European Community; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EmS (Emergency Response Procedures for Ships Carrying Dangerous Goods); EN - European Standard; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; EU OEL - European Occupational Exposure Limit; GHS -Globally Harmonized System of Classification and Labelling of Chemicals; GLP - Good Laboratory Practice; GV - Danish Exposure Limits for Substances and Materials; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration: IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LOFT - Danish Threshold Limit Value; MAK - German Threshold Limit Value; MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NIOSH/Guide - National Institute of Safety and Health Guidebook; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NTP -National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; PEL - Permissible Exposure Limit; PNEC - Predicted no Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; REL -



### **Supplement 3**

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Recommended Exposure Limit; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; STEL - Short-Term Exposure Limit; TDG - Transportation of Dangerous Goods; TGG – Dutch Threshold Limit Value; TGV – Swedish OEL; TLV Threshold Limit Value; TLV-C - Threshold Limit Value Ceiling; TWA -Time Weighted Average; UDS - Unscheduled DNA Synthesis; UN - United Nations; VLE - Valeurs limites d'exposition professionnelle aux agents chimiques en France; VME - Valeur (Limite) Moyenne d'Exposition; VOC - Volatile Organic Compound[s]; WEEL - Workplace Environmental Exposure Level; % w/w Percent weight by weight; %(V) Percent Volume

#### **Further information**

Date format

dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

99 / EN

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



Version 3.0	Revision Date 16.12.2021	Print Date 09.05.2024
SECTION 1: Identification of the	substance/mixture and of the c	company/undertaking
1.1 Product identifier		
Commercial Product Name	: Nucleofector® 2b Kit	
Product name	: For HUVECs	
1.2 Relevant identified uses of the su	Ibstance or mixture and uses adv	vised against
Use of the Substance/Mixture	: For Research Use Only. Not	t for use in diagnostic procedures.
1.3 Details of the supplier of the safe	ty data sheet	
Company	: Lonza Ltd Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland Business Telephone: +41 67	1
	Lonza Verviers Sprl Parc Industriel de Petit-Recl BE-4800 Verviers, Belgium Business Telephone: +3287	
	<b>Lonza Cologne GmbH</b> Nattermannallee 1 DE-50829 Köln, Germany Business Telephone: + 49 2	21 99 1990
	<b>Lonza Copenhagen ApS</b> Strandhaven 12 DK-2665 Vallensbaek Stran Business Telephone: + 45 4	
E-mail address Responsible/issuing person	sds@lonza.com	
1.4 Emergency telephone number		
Emergency telephone number	: Lonza Ltd, CH-4002 Basel, Telephone: +41 61 313 94 9	

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.



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#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

Components

Remarks

: No hazardous ingredients

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

#### 4.1 Description of first aid measures

If inhaled	: No special precautions required.
In case of skin contact	: Wash with water and soap as a precaution. If skin irritation persists, call a physician.
In case of eye contact	: Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.
If swallowed	<ul> <li>No hazards which require special first aid measures. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. If you feel unwell, seek medical advice (show the label where possible).</li> </ul>

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

Symptoms	:	No information available.
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4.3 Indication of any immediate medical attention and special treatment needed						
Treatment	:	No information available.				
SECTION 5: Firefighting measures						
5.1 Extinguishing media						
Suitable extinguishing media	:	Product is compatible with standard fire-fighting agents.				
5.2 Special hazards arising from the su	ıbst	tance or mixture				
Hazardous combustion products	:	No hazardous combustion products are known				
5.3 Advice for firefighters						
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.				
Further information	:	The product is not flammable.				
		Use water spray to cool unopened containers.				
<b>6.1 Personal precautions, protective ed</b> Personal precautions		oment and emergency procedures				
<b>6.1 Personal precautions, protective ed</b> Personal precautions	quip :	oment and emergency procedures				
<ul> <li>6.1 Personal precautions, protective ed Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> </ul>	quip :	oment and emergency procedures Use personal protective equipment. No special environmental precautions required.				
<ul> <li>6.1 Personal precautions, protective ed Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> </ul>	quip :	oment and emergency procedures Use personal protective equipment. No special environmental precautions required. and cleaning up				
<ul> <li>6.1 Personal precautions, protective ed Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containm Methods for cleaning up</li> </ul>	quip : : ent	oment and emergency procedures Use personal protective equipment. No special environmental precautions required. and cleaning up				
<ul> <li>6.1 Personal precautions, protective ed Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containm Methods for cleaning up</li> </ul>	quir : : ent	oment and emergency procedures Use personal protective equipment. No special environmental precautions required. and cleaning up				
<ul> <li>6.1 Personal precautions, protective ed Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containm Methods for cleaning up</li> <li>6.4 Reference to other sections For personal protection see section 8</li> </ul>	quir : : ent	oment and emergency procedures Use personal protective equipment. No special environmental precautions required. and cleaning up				
<ul> <li>6.1 Personal precautions, protective ed Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containm Methods for cleaning up</li> <li>6.4 Reference to other sections For personal protection see section 8</li> <li>SECTION 7: Handling and storage</li> </ul>	quir : : ent	oment and emergency procedures Use personal protective equipment. No special environmental precautions required. and cleaning up				
<ul> <li>6.1 Personal precautions, protective ed Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containm Methods for cleaning up</li> <li>6.4 Reference to other sections For personal protection see section 8</li> <li>SECTION 7: Handling and storage</li> </ul>	quir : : ent	oment and emergency procedures Use personal protective equipment. No special environmental precautions required. and cleaning up				
<ul> <li>6.1 Personal precautions, protective ed Personal precautions</li> <li>6.2 Environmental precautions Environmental precautions</li> <li>6.3 Methods and material for containm Methods for cleaning up</li> <li>6.4 Reference to other sections For personal protection see section &amp;</li> <li>SECTION 7: Handling and storage</li> <li>7.1 Precautions for safe handling</li> </ul>	quir : ent : 3.	<ul> <li>Dement and emergency procedures</li> <li>Use personal protective equipment.</li> <li>No special environmental precautions required.</li> <li>and cleaning up</li> <li>After cleaning, flush away traces with water.</li> </ul>				
<ul> <li>6.2 Environmental precautions <ul> <li>Environmental precautions</li> </ul> </li> <li>6.3 Methods and material for containm Methods for cleaning up</li> <li>6.4 Reference to other sections <ul> <li>For personal protection see section 8</li> </ul> </li> <li>SECTION 7: Handling and storage</li> <li>7.1 Precautions for safe handling <ul> <li>Advice on safe handling</li> <li>Advice on protection against fire and</li> </ul> </li> </ul>	quir : ent : 3.	Dement and emergency procedures Use personal protective equipment. No special environmental precautions required. and cleaning up After cleaning, flush away traces with water. No special precautions required.				



### Nucleofector® Vector (0.5 µg/µl in 10mM Tris, pH 8.0; 30µg)

Version 3.0	F	Revision Date 16.12.2021	Print Date 09.05.2024
		practice.	
7.2 Conditions for safe storage, including	g;	any incompatibilities	
Requirements for storage areas and containers	:	No special storage conditions required. Store	e in cool place.
7.3 Specific end use(s)			
Specific use(s)	:	For Nucleofector™ Usage only.	
SECTION 8: Exposure controls/perso	on	al protection	
8.1 Control parameters			
Occupational Exposure Limits			
Contains no substances with occu	upa	ational exposure limit values.	
8.2 Exposure controls			
Engineering measures Avoid splashes.			
Personal protective equipment Eye protection	:	Tightly fitting safety goggles	
Hand protection Material Rate of permeability	:	Nitrile rubber > 480 min	
Skin and body protection	:	Choose body protection according to the am concentration of the dangerous substance at No special protective equipment required.	
Respiratory protection	:	No personal respiratory protective equipmen required.	it normally

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

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

Physical state	: liquid
Appearance	: Aqueous solution
Colour	: colourless



## Nucleofector® Vector (0.5 µg/µl in 10mM Tris, pH 8.0; 30µg)

ion 3.0		Revision Date 16.12.2021	Print Date 09.05.20
Odour	:	odourless	
Melting point/freezing point	:	ca. 0 °C	
Initial boiling point and boiling range	:	ca. 100 °C	
Flammability	:	no data available	
Upper explosion limit / upper flammability limit	:	no data available	
Lower explosion limit / Lower flammability limit	:	no data available	
Flash point	:	no data available	
Auto-ignition temperature	:	no data available	
Decomposition temperature Decomposition temperature	:	no data available	
рН	:	8,0	
Viscosity Viscosity, kinematic	:	no data available	
Solubility(ies) Water solubility	:	no data available	
Partition coefficient: n-octanol/water	:	no data available	
Vapour pressure	:	no data available	
Relative density	:	no data available	
Density	:	ca. 1 g/cm3	
Relative vapour density	:	no data available	
Particle characteristics	:	no data available	

no data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Stable under recommended storage conditions.



Version 3.0	Revision Date 16.12.2021	Print Date 09.05.2024
10.2 Chemical stability		
Stable under normal conditions.		
10.3 Possibility of hazardous reactions		
Hazardous reactions	: Stable under normal conditions.	
10.4 Conditions to avoid		
Conditions to avoid	: no data available	
10.5 Incompatible materials		
Materials to avoid	: no data available	
10.6 Hazardous decomposition products	5	

No decomposition if stored normally.

### **SECTION 11: Toxicological information**

Ref.

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity		
Acute oral toxicity	:	Remarks: no data available
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	Remarks: no data available
Skin corrosion/irritation		Remarks: no data available
Serious eye damage/eye irritation		Remarks: no data available
Respiratory or skin sensitisation		Remarks: no data available
Germ cell mutagenicity Genotoxicity in vitro	:	Remarks: no data available
Carcinogenicity		Remarks: no data available
Reproductive toxicity		
Effects on fertility	:	Remarks: no data available
/ 00000027160		SDK_EU/EN



according to Regulation (EC) No. 1907/2006

# Nucleofector® Vector (0.5 µg/µl in 10mM Tris, pH 8.0; 30µg)

Version 3.0	Revision Date 16.12.2021	Print Date 09.05.2024
0707		
STOT - single exposure	Remarks: no data available	
STOT - repeated exposure		
	Remarks: no data available	
11.2 Information on other hazards		
Endocrine disrupting properties		
Assessment	: The substance/mixture does not co considered to have endocrine disru to REACH Article 57(f) or Commiss (EU) 2017/2100 or Commission Re levels of 0.1% or higher.	upting properties according sion Delegated regulation
Further information		
	Remarks: No data is available on t	he product itself.
SECTION 12: Ecological information	n	
12.1 Toxicity Toxicity to fish	: Remarks: no data available	
12.2 Persistence and degradability		
Biodegradability	: Result: no data available	
12.3 Bioaccumulative potential		
Bioaccumulation	: Remarks: no data available	
12.4 Mobility in soil		
Distribution among environmental compartments	: Remarks: no data available	
12.5 Results of PBT and vPvB assessm	nent	
Assessment	: This substance/mixture contains no be either persistent, bioaccumulati persistent and very bioaccumulativ higher.	ve and toxic (PBT), or very
12.6 Endocrine disrupting properties		
Endocrine disrupting potential	: The substance/mixture does not co considered to have endocrine disru	
Ref. / 00000027160	SDK_EU / EN	Page 30 (34)



Versior	า 3.0	Revision Date 16.12.2021	Print Date 09.05.2024
		to REACH Article 57(f) or Comn (EU) 2017/2100 or Commission levels of 0.1% or higher.	
12.7 Ot	ther adverse effects		
Er	ndocrine disrupting potential	: The substance/mixture does not considered to have endocrine di to REACH Article 57(f) or Comm (EU) 2017/2100 or Commission levels of 0.1% or higher.	isrupting properties according nission Delegated regulation
Ac	dditional ecological information	: no data available	
SECTI	ON 13: Disposal consideration	ons	
13.1 W	aste treatment methods		
Pr	oduct	: Dispose of in accordance with lo	ocal regulations.
ΙΑΤΑ		Not dangerous goods	
14.1	UN number	: Not applicable	
14.2 14.3	Proper shipping name	: Not applicable	
14.3	Transport hazard class Packing group	: Not applicable : Not applicable	
14.5	Environmental hazards	: no	
IMDG	-CODE	Not dangerous goods	
14.1	UN number	: Not applicable	
14.2	Proper shipping name	: Not applicable	
14.3	Transport hazard class	: Not applicable	
14.4 14.5	Packing group Environmental hazards	: Not applicable : Marine pollutant: no	
14.5		. Manne politiant. no	
ADR		Not dangerous goods	
14.1	UN number	: Not applicable	
14.2	Proper shipping name	: Not applicable	
14.3	Transport hazard class	: Not applicable	
14.4	Packing group Environmental hazards	: Not applicable : no	
14.5			



Version 3.0		Revision Date 16.12.2021	Print Date 09.05.2024
RID		: Not dangerous goods	
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>	
DOT		: Not dangerous goods	
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>	
TDG		: Not dangerous goods	
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>	

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex		Not applicable



Version 3.0	Revision Date 16.12.2021		Print Date 09.05.2024
XIV)			
Regulation (EC) No 1005/2009 on subsoction of the second s	tances that deplete the	Not applicable	
Regulation (EU) 2019/1021 on persiste (recast)	nt organic pollutants	Not applicable	
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council o major-accident hazards involving dangerous substances. Not applicable			e control of
National regulatory information			
Water hazard class (Germany) :	nwg not water endan Remarks: Classification		, Annex 1 (4)
15.2 Chemical safety assessment not required			

#### **SECTION 16: Other information**

#### Full text of other abbreviations

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE -Acute Toxicity Estimate; AwSV - Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen / Ordinance on facilities for handling substances that are hazardous to water; BPR - Biocidal Product Regulation; bw - Body weight; CAS - Chemical Abstract Service; CLP - Classification Labelling Packaging Regulation, Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL-Derived No Effect Level; DOT - Department of Transportation; EC – European Community; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EmS (Emergency Response Procedures for Ships Carrying Dangerous Goods); EN - European Standard; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; EU OEL - European Occupational Exposure Limit; GHS -Globally Harmonized System of Classification and Labelling of Chemicals; GLP - Good Laboratory Practice; GV - Danish Exposure Limits for Substances and Materials; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration: IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LOFT - Danish Threshold Limit Value; MAK - German Threshold Limit Value; MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NIOSH/Guide - National Institute of Safety and Health Guidebook; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NTP -National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; PEL - Permissible Exposure Limit; PNEC - Predicted no Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; REL -



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Recommended Exposure Limit; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; STEL - Short-Term Exposure Limit; TDG - Transportation of Dangerous Goods; TGG – Dutch Threshold Limit Value; TGV – Swedish OEL; TLV Threshold Limit Value; TLV-C - Threshold Limit Value Ceiling; TWA -Time Weighted Average; UDS - Unscheduled DNA Synthesis; UN - United Nations; VLE - Valeurs limites d'exposition professionnelle aux agents chimiques en France; VME - Valeur (Limite) Moyenne d'Exposition; VOC - Volatile Organic Compound[s]; WEEL - Workplace Environmental Exposure Level; % w/w Percent weight by weight; %(V) Percent Volume

#### **Further information**

Date format

dd.mm.yyyy

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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