

# **D-Plex mRNA Capture Module**

# C05030032

# Flyleaf

Date of compilation: 2021-08-27

ill of materials					
Name of substance	Identifier	Number of pieces	Classification acc. to GHS	Pictograms	Page
Oligo d(T) Beads		1			2-9
2X RNA Binding Buffer		1			10 – 20
Wash Buffer		1			21 - 30
Tris Buffer		1			31 - 38
ChIP-seq grade water		1			39 - 46



according to Regulation (EC) No. 1907/2006 (REACH)

## Oligo d(T) Beads

version number: GHS 1.0

#### date of compilation: 2021-06-18

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

#### 1.1 product identifier

trade name registration number (REACH) product code(s)

## Oligo d(T) Beads

not relevant (mixture)

K11941002

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

relevant identified uses

for research use only, not for use in diagnostic or therapeutic procedures.

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

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

### 1.4 emergency telephone number

emergency information service

+32 4 364 20 50 this number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

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

### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP) this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

### 2.3 other hazards

of no significance



according to Regulation (EC) No. 1907/2006 (REACH)

## Oligo d(T) Beads

version number: GHS 1.0

date of compilation: 2021-06-18

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

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

This mixture does not contain any potentially hazardous products.

It contains 0,02% sodium azide as preservative.

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

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

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

symptoms and effects are not known to date.

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

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media water spray, BC-powder, carbon dioxide (CO2)

water spray, bo powder, earbon aloxide

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products nitrogen oxides (NOx)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.



according to Regulation (EC) No. 1907/2006 (REACH)

## Oligo d(T) Beads

version number: GHS 1.0

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

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel remove persons to safety.

for emergency responders wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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

advice on how to contain a spill covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation

use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

#### 7.3 specific end use(s)

see section 16 for a general overview.



according to Regulation (EC) No. 1907/2006 (REACH)

## Oligo d(T) Beads

version number: GHS 1.0

date of compilation: 2021-06-18

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

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

skin protection

#### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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

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

physical state	liquid
colour	brown
odour	odourless
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined
flammability	non-combustible
lower and upper explosion limit	not determined
flash point	not determined
auto-ignition temperature	not determined
decomposition temperature	not relevant
pH (value)	not determined



version number: GHS 1.0

## **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH)

## **Oligo d(T) Beads**

date of compilation: 2021-06-18

kinematic viscosity	not determined
solubility(ies)	not determined

partition	coefficient
purtition	COCHICICIU

partition coefficient n-octanol/water (log value)	this information is not available

vanour	pressure
vapour	pressure

	vapour pressure	not determined
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density and/or relative density

density	not determined
relative vapour density	information on this property is not available

particle characteristics	not relevant (liquid)	

#### 9.2 other information

information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
other safety characteristics	there is no additional information

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

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### possibility of hazardous reactions 10.3

no known hazardous reactions.

## 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

### **10.5** incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.



according to Regulation (EC) No. 1907/2006 (REACH)

## Oligo d(T) Beads

version number: GHS 1.0

date of compilation: 2021-06-18

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

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

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

## germ cell mutagenicity

shall not be classified as germ cell mutagenic.

### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.



according to Regulation (EC) No. 1907/2006 (REACH)

## **Oligo d(T) Beads**

version number: GHS 1.0

date of compilation: 2021-06-18

#### 12.5 results of PBT and vPvB assessment

data are not available.

- 12.6 endocrine disrupting properties information on this property is not available.
- 12.7 other adverse effects

data are not available.

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

### 13.1 waste treatment methods

sewage disposal-relevant information do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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

14.1	UN number or ID number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	transport hazard class(es)	none
14.4	packing group	not assigned
14.5	environmental hazards	non-environmentally hazardous acc. to the danger- ous goods regulations

#### special precautions for user 14.6

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

### transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

not subject to ADR, RID and ADN.

# International Maritime Dangerous Goods Code (IMDG) - additional information

not subject to IMDG.

## International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

not subject to ICAO-IATA.



according to Regulation (EC) No. 1907/2006 (REACH)

## **Oligo d(T) Beads**

date of compilation: 2021-06-18

#### version number: GHS 1.0

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

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

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Water- ways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.



according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

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

## 1.1 product identifier

trade name

registration number (REACH) product code(s) 2X RNA Binding Buffer

not relevant (mixture)

K11941003

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

relevant identified uses

for research use only, not for use in diagnostic or therapeutic procedures.

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

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

### 1.4 emergency telephone number

emergency information service

+32 4 364 20 50 this number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

## **SECTION 2: Hazards identification**

### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP) this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word not required
- pictograms not required
- supplemental hazard information EUH210 safety data sheet available on request.

### 2.3 other hazards

of no significance



according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

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

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

This mixture does not contain any potentially hazardous products.

name of substance	identifier	wt%	classification	n acc. to GHS	pictograms
Lithium chloride	CAS No 7447-41-8 EC No 231-212-3 REACH Reg. No 01-2119560574-35-xxxx	≤5	Acute Tox. 4 / H302		<b>(!)</b>
name of substance	Specific Conc. Limits		M-Factors	ATE	exposure route
Lithium chloride	-		-	526 <sup>mg</sup> / <sub>kg</sub>	oral

for full text of abbreviations: see SECTION 16.

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

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

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

symptoms and effects are not known to date.

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

none



according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

### **SECTION 5: Firefighting measures**

### 5.1 extinguishing media

suitable extinguishing media water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products nitrogen oxides (NOx)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

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

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

#### for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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

advice on how to contain a spill

covering of drains

#### advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

#### appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.



according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

### **SECTION 7: Handling and storage**

## 7.1 precautions for safe handling

#### recommendations

- measures to prevent fire as well as aerosol and dust generation

use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

### 7.2 conditions for safe storage, including any incompatibilities

#### control of effects

protect against external exposure, such as

frost

### 7.3 specific end use(s)

see section 16 for a general overview.

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

### 8.1 control parameters

this information is not available.

relevant DNELs of components of the mixture						
name of substance	CAS No	endpoint	threshold level	protection goal, route of exposure	used in	exposure time
Lithium chloride	7447-41-8	DNEL	10 mg/m³	human, inhalatory	worker (industry)	chronic - systemic ef- fects
Lithium chloride	7447-41-8	DNEL	30 mg/m³	human, inhalatory	worker (industry)	acute - systemic ef- fects
Lithium chloride	7447-41-8	DNEL	73.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects

relevant PNECs of components of the mixture						
name of substance	CAS No	endpoint	threshold level	organism	environmental compartment	exposure time
Lithium chloride	7447-41-8	PNEC	10.4 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single in- stance)
Lithium chloride	7447-41-8	PNEC	1.04 <sup>mg</sup> /l	aquatic organisms	marine water	short-term (single in- stance)
Lithium chloride	7447-41-8	PNEC	140.2 <sup>mg</sup> /l	aquatic organisms	sewage treatment plant (STP)	short-term (single in- stance)
Lithium chloride	7447-41-8	PNEC	49.9 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single in- stance)
Lithium chloride	7447-41-8	PNEC	4.99 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single in- stance)



replaces version of: 2021-06-18 (GHS 1)

version number: GHS 2.0

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

relevant PNECs of components of the mixture							
name of substance	CAS No	endpoint	threshold level	organism	environmental compartment	exposure time	
Lithium chloride	7447-41-8	PNEC	4.13 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single in- stance)	

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

#### eye/face protection

wear eye/face protection.

skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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

### 9.1 information on basic physical and chemical properties

physical state	liquid
colour	colourless
odour	odourless
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined
flammability	non-combustible
lower and upper explosion limit	not determined
flash point	not determined
auto-ignition temperature	not determined



according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

version number: GHS 2.0
replaces version of: 2021-06-18 (GHS 1)

decomposition temperature	not relevant
pH (value)	not determined
kinematic viscosity	not determined
solubility(ies)	not determined

#### partition coefficient

partition coefficient n-octanol/water (log value)	this information is not available
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vapour pressure	not determined
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#### density and/or relative density

density	not determined
relative vapour density	information on this property is not available

particle characteristics	not relevant (liquid)
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#### 9.2 other information

information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
other safety characteristics	there is no additional information

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

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### **10.5** incompatible materials

there is no additional information.

#### **10.6** hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.



according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

## **SECTION 11: Toxicological information**

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

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

### 11.2 information on other hazards

there is no additional information.

## **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.



according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

#### version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

## 12.5 results of PBT and vPvB assessment

data are not available.

## 12.6 endocrine disrupting properties

information on this property is not available.

#### 12.7 other adverse effects

data are not available.

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

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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

14.1	UN number or ID number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	transport hazard class(es)	none
14.4	packing group	not assigned
14.5	environmental hazards	non-environmentally hazardous acc. to the danger- ous goods regulations

### 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

# transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

not subject to ADR, RID and ADN.

## International Maritime Dangerous Goods Code (IMDG) - additional information

not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

not subject to ICAO-IATA.



according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

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

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

### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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

#### indication of changes (revised safety data sheet)

section former entry (text/value)		former entry (text/value) actual entry (text/value)	
4.1	following skin contact: brush off loose particles from skin. rinse skin with water/shower.	following skin contact: wash with plenty of soap and water.	yes
5.1	suitable extinguishing media: water, foam, ABC-powder	suitable extinguishing media: water spray, BC-powder, carbon dioxide (CO2)	yes
6.3	advice on how to contain a spill: covering of drains, take up mechanically	advice on how to contain a spill: covering of drains	yes
6.3	advice on how to clean up a spill: take up mechanically.	advice on how to clean up a spill: wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder	
6.3		appropriate containment techniques: use of adsorbent materials.	yes
dust generation: dust generation:		use local and general ventilation. use only in well-	yes
7.1	specific notes/details: dust deposits may accumulate on all deposition sur- faces in a technical room. the product in the de- livered form is not dust explosion capable; the en- richment of fine dust however leads to the danger of dust explosion.		yes
7.2	managing of associated risks		yes
7.2	- explosive atmospheres: removal of dust deposits.	ye	
7.2	- ventilation requirements: use local and general ventilation.		
7.2	2 control of effects		yes
7.2	protect against external exposure, such as: frost		yes
8.1	control parameters	control parameters: this information is not available.	yes



according to Regulation (EC) No. 1907/2006 (REACH)

# 2X RNA Binding Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
8.2	hand protection: wear protective gloves.	hand protection: wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resist- ance to chemicals of the protective gloves men- tioned above together with the supplier of these gloves.	yes
8.2	respiratory protection: particulate filter device (EN 143).	respiratory protection: in case of inadequate ventilation wear respiratory protection.	yes
9.1	physical state: solid	physical state: liquid	yes
9.1	flash point: not applicable	flash point: not determined	yes
9.1	pH (value): not applicable	pH (value): not determined	yes
9.1	kinematic viscosity: not relevant	kinematic viscosity: not determined	yes
9.1	particle characteristics: no data available	particle characteristics: not relevant (liquid)	yes
10.4	hints to prevent fire or explosion: the product in the delivered form is not dust explo- sion capable; the enrichment of fine dust however leads to the danger of dust explosion.		yes
16		abbreviations and acronyms: change in the listing (table)	yes

## abbreviations and acronyms

abbr.	descriptions of used abbreviations	
Acute Tox.	Acute toxicity	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Water- ways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)	
ATE	Acute Toxicity Estimate	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	



replaces version of: 2021-06-18 (GHS 1)

version number: GHS 2.0

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## 2X RNA Binding Buffer

revision: 2021-06-18

abbr.	descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H302	Harmful if swallowed.

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

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

#### 1.1 product identifier

trade name

1.2

registration number (REACH)

product code(s)

## relevant identified uses of the substance or mixture and uses advised against

Wash Buffer

K11941004

not relevant (mixture)

relevant identified uses

for research use only, not for use in diagnostic or therapeutic procedures.

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

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

### 1.4 emergency telephone number

emergency information service

+32 4 364 20 50 this number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

## **SECTION 2: Hazards identification**

### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP) this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

### 2.3 other hazards

of no significance



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

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

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

This mixture does not contain any potentially hazardous products.

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

### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

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

symptoms and effects are not known to date.

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

none

### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products nitrogen oxides (NOx)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

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

### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel remove persons to safety.

for emergency responders wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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

advice on how to contain a spill covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

#### appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

### 7.1 precautions for safe handling

#### recommendations

- measures to prevent fire as well as aerosol and dust generation

use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as frost

#### 7.3 specific end use(s)

see section 16 for a general overview.



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1) revision: 2021-06-18

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

#### 8.1 control parameters

this information is not available.

### 8.2 exposure controls

appropriate engineering controls general ventilation.

individual protection measures (personal protective equipment)

#### eye/face protection

wear eye/face protection.

skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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

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

physical state	liquid
colour	colourless
odour	odourless
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined
flammability	non-combustible
lower and upper explosion limit	not determined
flash point	not determined
auto-ignition temperature	not determined
decomposition temperature	not relevant
pH (value)	not determined



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

revision: 2021-06-18

kinematic viscosity	not determined	
solubility(ies)	not determined	

partition coefficient

partition coefficient n-octanol/water (log value)	this information is not available

vapour pressure	not determined

### density and/or relative density

density	not determined
relative vapour density	information on this property is not available

particle characteristics
--------------------------

### 9.2 other information

information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
other safety characteristics	there is no additional information

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

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### **10.6** hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

## **SECTION 11: Toxicological information**

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

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

### 11.2 information on other hazards

there is no additional information.

## **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

### 12.5 results of PBT and vPvB assessment

data are not available.

12.6 endocrine disrupting properties

information on this property is not available.

12.7 other adverse effects

data are not available.

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

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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

14.1	UN number or ID number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	transport hazard class(es)	none
14.4	packing group	not assigned
14.5	environmental hazards	non-environmentally hazardous acc. to the danger- ous goods regulations

### 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

# transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

not subject to ADR, RID and ADN.

## International Maritime Dangerous Goods Code (IMDG) - additional information

not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

not subject to ICAO-IATA.



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

revision: 2021-06-18

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

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

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

### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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

#### indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel <sup>.</sup> evant
4.1	following skin contact: brush off loose particles from skin. rinse skin with water/shower.	following skin contact: wash with plenty of soap and water.	yes
5.1	suitable extinguishing media: water, foam, ABC-powder	suitable extinguishing media: water spray, BC-powder, carbon dioxide (CO2)	yes
6.3	advice on how to contain a spill: covering of drains, take up mechanically	advice on how to contain a spill: covering of drains	yes
6.3	advice on how to clean up a spill: take up mechanically.	advice on how to clean up a spill: wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder	yes
6.3		appropriate containment techniques: use of adsorbent materials.	yes
7.1	<ul> <li>measures to prevent fire as well as aerosol and dust generation:</li> <li>use local and general ventilation. take precaution- ary measures against static discharge. use only in well-ventilated areas. ground/bond container and receiving equipment.</li> </ul>	- measures to prevent fire as well as aerosol and dust generation: use local and general ventilation. use only in well- ventilated areas.	yes
7.1	specific notes/details: dust deposits may accumulate on all deposition sur- faces in a technical room. the product in the de- livered form is not dust explosion capable; the en- richment of fine dust however leads to the danger of dust explosion.		yes
7.2	managing of associated risks		yes
7.2	- explosive atmospheres: removal of dust deposits.		yes
7.2	- ventilation requirements: use local and general ventilation.		yes
7.2		control of effects	yes
7.2		protect against external exposure, such as: frost	yes
8.1	control parameters	control parameters: this information is not available.	yes
8.1		occupational exposure limit values (Workplace Ex- posure Limits): change in the listing (table)	yes



according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

version number: GHS 2.0 replaces version of: 2021-06-18 (GHS 1)

revision: 2021-06-18

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
8.2	hand protection: wear protective gloves.	hand protection: wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resist- ance to chemicals of the protective gloves men- tioned above together with the supplier of these gloves.	yes
8.2	respiratory protection: particulate filter device (EN 143).	respiratory protection: in case of inadequate ventilation wear respiratory protection.	yes
9.1	physical state: solid	physical state: liquid	yes
9.1	flash point: not applicable	flash point: not determined	yes
9.1	pH (value): not applicable	pH (value): not determined	yes
9.1	kinematic viscosity: not relevant	kinematic viscosity: not determined	yes
9.1	particle characteristics: no data available	particle characteristics: not relevant (liquid)	yes
10.4	hints to prevent fire or explosion: the product in the delivered form is not dust explo- sion capable; the enrichment of fine dust however leads to the danger of dust explosion.		yes
16		abbreviations and acronyms: change in the listing (table)	yes

## abbreviations and acronyms

abbr.	descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Water- ways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	



version number: GHS 2.0

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer

revision: 2021-06-18

replaces	eplaces version of: 2021-06-18 (GHS 1)		
	abbr.	descriptions of used abbreviations	
	RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)	
	vPvB	Very Persistent and very Bioaccumulative	

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.



according to Regulation (EC) No. 1907/2006 (REACH)

## **Tris Buffer**

version number: GHS 1.0

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

### 1.1 product identifier

trade name registration number (REACH) product code(s)

## **Tris Buffer**

not relevant (mixture)

K11941005

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

relevant identified uses

for research use only, not for use in diagnostic or therapeutic procedures.

date of compilation: 2021-06-18

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

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

### 1.4 emergency telephone number

emergency information service

+32 4 364 20 50 this number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

## **SECTION 2: Hazards identification**

### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP) this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

### 2.3 other hazards

of no significance



according to Regulation (EC) No. 1907/2006 (REACH)

## **Tris Buffer**

version number: GHS 1.0

date of compilation: 2021-06-18

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

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

This mixture does not contain any potentially hazardous products.

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

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

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

symptoms and effects are not known to date.

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

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.



according to Regulation (EC) No. 1907/2006 (REACH)

## **Tris Buffer**

version number: GHS 1.0

date of compilation: 2021-06-18

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

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel remove persons to safety.

for emergency responders wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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

advice on how to contain a spill covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation

use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

#### 7.3 specific end use(s)

see section 16 for a general overview.



according to Regulation (EC) No. 1907/2006 (REACH)

## **Tris Buffer**

version number: GHS 1.0

date of compilation: 2021-06-18

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

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

skin protection

#### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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

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

physical state	liquid
colour	colourless
odour	odourless
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined
flammability	non-combustible
lower and upper explosion limit	not determined
flash point	not determined
auto-ignition temperature	not determined
decomposition temperature	not relevant
pH (value)	not determined



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## **Tris Buffer**

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kinematic viscosity	not determined
solubility(ies)	not determined

#### partition coefficient

partition coefficient n-octanol/water (log value)	this information is not available

vapour	pressure	

vapour pressure	not determined

#### density and/or relative density

density	not determined
relative vapour density	information on this property is not available

particle characteristics	not relevant (liquid)	

#### 9.2 other information

information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
other safety characteristics	there is no additional information

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

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

# 10.3 possibility of hazardous reactions

no known hazardous reactions.

### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

### **10.5** incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.



according to Regulation (EC) No. 1907/2006 (REACH)

## **Tris Buffer**

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date of compilation: 2021-06-18

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

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

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

## germ cell mutagenicity

shall not be classified as germ cell mutagenic.

### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.



according to Regulation (EC) No. 1907/2006 (REACH)

## **Tris Buffer**

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#### 12.5 results of PBT and vPvB assessment

data are not available.

- 12.6 endocrine disrupting properties information on this property is not available.
- other adverse effects 12.7

data are not available.

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

#### 13.1 waste treatment methods

sewage disposal-relevant information do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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

14.1	UN number or ID number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	transport hazard class(es)	none
14.4	packing group	not assigned
14.5	environmental hazards	non-environmentally hazardous acc. to the danger- ous goods regulations

#### special precautions for user 14.6

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

### transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

not subject to ADR, RID and ADN.

# International Maritime Dangerous Goods Code (IMDG) - additional information

not subject to IMDG.

## International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

not subject to ICAO-IATA.



according to Regulation (EC) No. 1907/2006 (REACH)

## **Tris Buffer**

version number: GHS 1.0

date of compilation: 2021-06-18

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

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

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Water- ways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade water

revision: 2019-12-23

version number: GHS 2.0 replaces version of: 2019-11-22 (GHS 1)

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

## 1.1 product identifier

identification of the substance registration number (REACH) CAS number ChIP-seq grade water

this information is not available

7732-18-5

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

relevant identified uses

for research use only, not for use in diagnostic or therapeutic procedures.

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

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

### 1.4 emergency telephone number

emergency information service

+32 4 364 20 50 this number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

## **SECTION 2: Hazards identification**

## 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

### 2.3 other hazards

results of PBT and vPvB assessment

according to the results of its assessment, this substance is not a PBT or a vPvB.



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade water

revision: 2019-12-23

#### version number: GHS 2.0 replaces version of: 2019-11-22 (GHS 1)

## SECTION 3: Composition/information on ingredients

3.1	substances	
	name of substance	ChIP-seq grade water
	identifiers	
	CAS No	7732-18-5
	molecular formula	H20
	molar mass	18.02 <sup>g</sup> / <sub>mol</sub>

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

### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

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

symptoms and effects are not known to date.

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

none

### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

### 5.2 special hazards arising from the substance or mixture

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade water

revision: 2019-12-23

version number: GHS 2.0 replaces version of: 2019-11-22 (GHS 1)

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

### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel remove persons to safety.

for emergency responders wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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

advice on how to contain a spill covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

#### appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

### 6.4 reference to other sections

personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

### 7.1 precautions for safe handling

#### recommendations

- measures to prevent fire as well as aerosol and dust generation

use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as frost

#### 7.3 specific end use(s)

see section 16 for a general overview.



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade water

revision: 2019-12-23

version number: GHS 2.0 replaces version of: 2019-11-22 (GHS 1)

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

#### 8.1 control parameters

this information is not available.

### 8.2 exposure controls

appropriate engineering controls general ventilation.

individual protection measures (personal protective equipment)

#### eye/face protection

wear eye/face protection.

skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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

### 9.1 information on basic physical and chemical properties

#### appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	0 °C
initial boiling point and boiling range	100 °C
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade water

revision: 2019-12-23

version number: GHS 2.0	
replaces version of: 2019-11-22 (GHS 1)	

explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	
- water solubility	miscible in any proportion
partition coefficient	
- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none
other information	there is no additional information
	vapour pressure density vapour density relative density solubility(ies) - water solubility partition coefficient - n-octanol/water (log KOW) auto-ignition temperature viscosity explosive properties oxidising properties

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

#### 10.1 reactivity

9.2

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### **10.6** hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade water

revision: 2019-12-23

version number: GHS 2.0 replaces version of: 2019-11-22 (GHS 1)

## **SECTION 11: Toxicological information**

### **11.1** information on toxicological effects

### classification according to GHS (1272/2008/EC, CLP)

this substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

reproductive toxicity

shall not be classified as a reproductive toxicant.

specific target organ toxicity - single exposure shall not be classified as a specific target organ toxicant (single exposure).

specific target organ toxicity - repeated exposure shall not be classified as a specific target organ toxicant (repeated exposure).

aspiration hazard

shall not be classified as presenting an aspiration hazard.

## **SECTION 12: Ecological information**

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

## 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 other adverse effects

data are not available.



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade water

revision: 2019-12-23

version number: GHS 2.0 replaces version of: 2019-11-22 (GHS 1)

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

#### 13.1 waste treatment methods

waste treatment-relevant information

recycling/reclamation of other inorganic materials.

#### sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

#### waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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

- 14.1 UN number
- 14.2 UN proper shipping name
- 14.3 transport hazard class(es)
- 14.4 packing group
- 14.5 environmental hazards

not subject to transport regulations

not relevant

none

not assigned to a packing group

non-environmentally hazardous acc. to the dangerous goods regulations

#### 14.6 special precautions for user

there is no additional information.

## 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

## transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

## International Maritime Dangerous Goods Code (IMDG)

not subject to IMDG.

## International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

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

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

### 15.2 Chemical Safety Assessment

no Chemical Safety Assessment has been carried out for this substance.



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade water

revision: 2019-12-23

version number: GHS 2.0 replaces version of: 2019-11-22 (GHS 1)

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

### indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
5.1	suitable extinguishing media: not applicable	suitable extinguishing media: water spray, alcohol resistant foam, BC-powder, car- bon dioxide (CO2)	yes
5.1	unsuitable extinguishing media: not applicable	unsuitable extinguishing media: water jet	yes

### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Water- ways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.