

# IP Buffers (iDeal ChIP-seq kit for Histones)

# C01010173

# Flyleaf

Date of compilation: 2020-03-26

Bill of materials					
Name of substance	Identifier	Number of pieces	Classification acc. to GHS	Pictograms	Page
5% BSA		1			2 – 9
ChIP-seq grade water		1			10 – 17
5x ChIP Buffer iC1		1	Eye Dam. 1 / H318 Aquatic Chronic 2 / H411		18 - 28
wash buffer iW1		1	Eye Irrit. 2 / H319 Aquatic Chronic 3 / H412	(!)	29 - 38
Wash buffer iW2		1	Eye Irrit. 2 / H319 Aquatic Chronic 3 / H412	(!)	39 - 47
Wash buffer iW3		1			48 - 56
Wash buffer iW4		1			57 - 64
Elution Buffer iE1		1			65 - 74
elution buffer iE2		1			75 - 83



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

### 5% BSA

**5% BSA** 

not relevant (mixture)

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)

### 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: 2019-11-22

### 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

results of PBT and vPvB assessment this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### SECTION 3: Composition/information on ingredients

### 3.1 substances

not relevant (mixture)



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

### 5% BSA

version number: GHS 1.0

### 3.2 mixtures

### **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 carbon monoxide (CO), carbon dioxide (CO2)

### 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.

date of compilation: 2019-11-22



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

### **5% BSA**

version number: GHS 1.0

### 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.

### **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.

date of compilation: 2019-11-22



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

### 5% BSA

version number: GHS 1.0

date of compilation: 2019-11-22

### 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	whitish yellow
odour	odourless

#### other safety parameters

	1	
pH (value)	not determined	
melting point/freezing point	not determined	
initial boiling point and boiling range	not determined	
flash point	not determined	
evaporation rate	not determined	
flammability (solid, gas)	not relevant, (fluid)	
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)	not determined	
partition coefficient		
- n-octanol/water (log KOW)	this information is not available	



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

### 5% BSA

version number: GHS 1.0

date of compilation: 2019-11-22

auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none
other information	there is no additional information

### **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

oxidisers

### 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.

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

### 11.1 information on toxicological effects

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.



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

### 5% BSA

version number: GHS 1.0

#### 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.

### **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.

date of compilation: 2019-11-22



version number: GHS 1.0

### **Safety Data Sheet**

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

### **5% BSA**

date of compilation: 2019-11-22

SECT	SECTION 14: Transport information		
14.1	UN 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 to a packing group	
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 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

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
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



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

### **5% BSA**

version number: GHS 1.0

date of compilation: 2019-11-22

abbr.	descriptions of used abbreviations
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).

### 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: 2	umber: GHS 2.0 version of: 2019-11-22 (GHS 1)
not determined	explosive limits
not determined	vapour pressure
not determined	density
this information is not available	vapour density
information on this property is not available	relative density
	solubility(ies)
miscible in any proportion	- water solubility
	partition coefficient
this information is not available	- n-octanol/water (log KOW)
not determined	auto-ignition temperature
not determined	viscosity
none	explosive properties
none	oxidising properties
there is no additional information	other information

#### 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)

### 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.



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

### **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1 replaces version of: 2019-11-26 (GHS 1)

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

### 1.1 product identifier

trade name

registration number (REACH)

**5x ChIP Buffer iC1** 

not relevant (mixture)

### 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)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

### 2.2 label elements

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

- signal word danger
- pictograms
- GHS05, GHS09





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

## **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1
replaces version of: 2019-11-26 (GHS 1)

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- hazard statements	5	
H318	causes serious eye dam	age.
H411	toxic to aquatic life with	long lasting effects.
- precautionary stat	ements	
P273	•	
P280	wear protective gloves/protective clothing/eye protection/face protection.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	immediately call a POIS	ON CENTER/doctor.
P391	collect spillage.	
P501	dispose of contents/con	tainer to industrial combustion plant.
- hazardous ingredi	ents for labelling	Triton X-100

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Triton X-100	CAS No 9002-93-1 EC No 618-344-0	≤10	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

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.



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

### **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1 replaces version of: 2019-11-26 (GHS 1)

### 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), carbon monoxide (CO), carbon dioxide (CO2)

### 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. if substance has entered a water course or sewer, inform the responsible authority.

### 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)

## **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1 replaces version of: 2019-11-26 (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

- packaging compatibilities

only packagings which are approved (e.g. acc. to ADR) may be used.

### 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.

### 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.



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

### **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1 replaces version of: 2019-11-26 (GHS 1)

### 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 not determined initial boiling point and boiling range not determined flash point not determined evaporation rate not determined flammability (solid, gas) not relevant, (fluid) explosive limits not determined vapour pressure not determined not determined density this information is not available vapour density relative density information on this property is not available solubility(ies) not determined 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

9.2



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

## **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1 replaces version of: 2019-11-26 (GHS 1)

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

### 10.1 reactivity

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

### **10.2 chemical stability**

see below "Conditions to avoid".

### 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

oxidisers

### 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.

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

### 11.1 information on toxicological effects

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)

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

causes serious eye damage.

### 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).



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

### **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1 replaces version of: 2019-11-26 (GHS 1)

### aspiration hazard

shall not be classified as presenting an aspiration hazard.

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

### 12.1 toxicity

toxic to aquatic life with long lasting effects.

### 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.

### **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

it is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. 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

technical name (hazardous ingredients)

### 14.3 transport hazard class(es)

class

### 14.4 packing group

### 14.5 environmental hazards

environmentally hazardous substance (aquatic environment)

### 14.6 special precautions for user

provisions for dangerous goods (ADR) should be complied within the premises.

### 3082

### ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-QUID, N.O.S.

Triton X-100

Triton X-100

9 (environmentally hazardous)

III (substance presenting low danger)

hazardous to the aquatic environment



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

## **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1 replaces version of: 2019-11-26 (GHS 1)

### 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)			
UN number	3082		
proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.		
class	9		
classification code	M6		
packing group	III		
danger label(s)	9, fish and tree		
environmental hazards	<b>yes</b> (hazardous to the aquatic environment)		
special provisions (SP)	274, 335, 375, 601		
excepted quantities (EQ)	E1		
limited quantities (LQ)	5 L		
transport category (TC)	3		
tunnel restriction code (TRC)	-		
hazard identification No	90		
Emergency Action Code	3Z		
International Maritime Dangerous Goods Code	(IMDG)		
UN number	3082		
proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.		
class	9		
marine pollutant	<b>YES</b> (hazardous to the aquatic environment)		
packing group	III		
danger label(s)	9, fish and tree		
special provisions (SP)	274, 335, 969		
excepted quantities (EQ)	E1		
limited quantities (LQ)	5 L		
EmS	F-A, S-F		
stowage category	А		



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

## **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1	
replaces version of: 2019-11-26 (GHS 1)	

International Civil Aviation Organization (ICAO-IATA/DGR)		
UN number	3082	
proper shipping name	Environmentally hazardous substance, liquid, n.o.s.	
class	9	
environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)	
packing group	III	
danger label(s)	9, fish and tree	
special provisions (SP)	A97, A158, A197	
excepted quantities (EQ)	E1	
limited quantities (LQ)	30 kg	

### **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- evant
1.1	product code(s): C01019015		yes
3.2	mixtures	mixtures: description of the mixture	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)	
Aquatic Acute	Hazardous to the aquatic environment - acute hazard	
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard	
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)	
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)	



replaces version of: 2019-11-26 (GHS 1)

version number: GHS 2.1

### Safety Data Sheet

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

## **5x ChIP Buffer iC1**

revision: 2020-01-23

abbr.	descriptions of used abbreviations
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
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
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
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)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
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).

### 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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.



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

## **5x ChIP Buffer iC1**

revision: 2020-01-23

version number: GHS 2.1 replaces version of: 2019-11-26 (GHS 1)

### 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 iW1

revision: 2019-12-02

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

trade name

registration number (REACH)

wash buffer iW1

not relevant (mixture)

### 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)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

### 2.2 label elements

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

- signal word warning

- pictograms

GHS07





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

### wash buffer iW1

revision: 2019-12-02

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

- hazard statement	S
H319	causes serious eye irritation.
H412	harmful to aquatic life with long lasting effects.
- precautionary stat	tements
P273	avoid release to the environment.
P280	wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	if eye irritation persists: Get medical advice/attention.
P501	dispose of contents/container to industrial combustion plant.

### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

### 3.1 substances

not relevant (mixture)

### 3.2 mixtures

description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Triton X-100	CAS No 9002-93-1	≤2	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318	
	EC No 618-344-0		Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

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.



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

### wash buffer iW1

revision: 2019-12-02

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

### 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.

### **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)

### wash buffer iW1

revision: 2019-12-02

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

### 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.



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

### wash buffer iW1

revision: 2019-12-02

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

### 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 not determined initial boiling point and boiling range not determined flash point not determined not determined evaporation rate flammability (solid, gas) not relevant, (fluid) explosive limits not determined vapour pressure not determined 1 <sup>g</sup>/<sub>cm<sup>3</sup></sub> at 20 °C density vapour density this information is not available solubility(ies) not determined partition coefficient

- n-octanol/water (log KOW)this information is not availableauto-ignition temperaturenot determinedviscositynot determinedexplosive propertiesnoneoxidising propertiesnoneother informationthere is no additional information

9.2



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

### wash buffer iW1

revision: 2019-12-02

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

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

### 10.1 reactivity

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

### **10.2 chemical stability**

see below "Conditions to avoid".

**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.

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

### 11.1 information on toxicological effects

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)

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

causes serious eye irritation.

### 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).



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

### wash buffer iW1

revision: 2019-12-02

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

### aspiration hazard

shall not be classified as presenting an aspiration hazard.

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

### 12.1 toxicity

harmful to aquatic life with long lasting effects.

### 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.

### **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	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	transport hazard class(es)	not assigned
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 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.



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

### wash buffer iW1

revision: 2019-12-02

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

### 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. not subject to RID.

# European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

identifier number	9006
proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.
class	9
number of cones/blue lights	0
International Maritime Dangerous Goods Code not subject to IMDG.	e (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

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- evant
1.1	alternative name(s): tagW2		yes
3.2	mixtures	mixtures: description of the mixture	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)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
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)



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

version number: GHS 2.0

## Safety Data Sheet

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

## wash buffer iW1

revision: 2019-12-02

abbr.	descriptions of used abbreviations
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
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
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)
ICA0	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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
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)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
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).

### 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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



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

## wash buffer iW1

revision: 2019-12-02

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

### 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 iW2

version number: GHS 1.0

### date of compilation: 2019-11-22

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

#### 1.1 product identifier

trade name

registration number (REACH)

## Wash buffer iW2

not relevant (mixture)

## 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)

sec	ction	hazard class	category	hazard class and cat- egory	hazard state- ment
3	3.3	serious eye damage/eye irritation 2 Eye Irrit. 2 H		H319	
4	i.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

## 2.2 label elements

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

- signal word
  - warning
- pictograms
  - GHS07





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

## Wash buffer iW2

version number: GHS 1.0

date of compilation: 2019-11-22

- hazard statement	S
H319	causes serious eye irritation.
H412	harmful to aquatic life with long lasting effects.
- precautionary sta	tements
P273	avoid release to the environment.
P280	wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	if eye irritation persists: Get medical advice/attention.
P501	dispose of contents/container to industrial combustion plant.

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Triton X-100	CAS No 9002-93-1	≤1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318	
	EC No 618-344-0		Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

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)

## Wash buffer iW2

date of compilation: 2019-11-22

version number: GHS 1.0

### **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)

## Wash buffer iW2

date of compilation: 2019-11-22

version number: GHS 1.0

## **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.

#### 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.



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

## Wash buffer iW2

version number: GHS 1.0

date of compilation: 2019-11-22

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

## 9.1 information on basic physical and chemical properties

### appearance liquid physical state colour colourless odour odourless other safety parameters pH (value) not determined melting point/freezing point not determined initial boiling point and boiling range not determined flash point not determined evaporation rate not determined flammability (solid, gas) not relevant, (fluid) explosive limits not determined not determined vapour pressure $1 \text{ g/}_{\text{cm}^3}$ at 20 °C density this information is not available vapour density solubility(ies) not determined partition coefficient - n-octanol/water (log KOW) this information is not available not determined auto-ignition temperature viscosity not determined explosive properties none

none

there is no additional information

9.2

oxidising properties

other information



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

## Wash buffer iW2

version number: GHS 1.0

date of compilation: 2019-11-22

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

#### 10.1 reactivity

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

#### 10.2 chemical stability

see below "Conditions to avoid".

#### 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.

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

#### 11.1 information on toxicological effects

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)

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

causes serious eye irritation.

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).



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

## Wash buffer iW2

version number: GHS 1.0

aspiration hazard

shall not be classified as presenting an aspiration hazard.

## **SECTION 12: Ecological information**

#### 12.1 toxicity

harmful to aquatic life with long lasting effects.

#### 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.

### **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	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	transport hazard class(es)	not assigned
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 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

date of compilation: 2019-11-22



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

## Wash buffer iW2

version number: GHS 1.0

date of compilation: 2019-11-22

## 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. not subject to RID.

## European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

-	
identifier number	9006
proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.
class	9
number of cones/blue lights	0
International Maritime Dangerous	Goods Code (IMDG)
not subject to IMDG.	
Testerne etien el Cieril Arrietien Ormenie	ration (ICAO IATA/DCD)

## 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

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

## **SECTION 16: Other information**

### 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)	
Aquatic Acute	Hazardous to the aquatic environment - acute hazard	
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard	
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)	
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	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	



version number: GHS 1.0

## Safety Data Sheet

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

## Wash buffer iW2

date of compilation: 2019-11-22

abbr.	descriptions of used abbreviations
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
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)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
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).

### 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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### 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 iW3

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)

## Wash buffer iW3

not relevant (mixture)

## 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: 2019-11-22

#### 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

there is no additional information.

### results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.



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

## Wash buffer iW3

version number: GHS 1.0

date of compilation: 2019-11-22

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

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Lithium chloride	CAS No 7447-41-8 EC No 231-212-3 REACH Reg. No 01-2119560574-35-xxxx	≤2	Acute Tox. 4 / H302	<b>!</b> >

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

### **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)



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

## Wash buffer iW3

version number: GHS 1.0

date of compilation: 2019-11-22

#### 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.

### **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 iW3

version number: GHS 1.0

date of compilation: 2019-11-22

## **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 effects
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 effects

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> /l	aquatic organisms	freshwater	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	1.04 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	140.2 <sup>mg</sup> / <sub>1</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	49.9 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	4.99 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	4.13 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)

### 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.



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

## Wash buffer iW3

version number: GHS 1.0

date of compilation: 2019-11-22

#### 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	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	1 <sup>g</sup> / <sub>cm³</sub> at 20 °C
vapour density	this information is not available
solubility(ies)	not determined
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	

9.2



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

## Wash buffer iW3

version number: GHS 1.0

date of compilation: 2019-11-22

## **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.

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

#### 11.1 information on toxicological effects

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).



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

## Wash buffer iW3

version number: GHS 1.0

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.

## **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	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 to a packing group
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 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

date of compilation: 2019-11-22



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

## Wash buffer iW3

version number: GHS 1.0

date of compilation: 2019-11-22

## 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

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

## **SECTION 16: Other information**

### 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)
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
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration



vPvB

## **Safety Data Sheet**

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

## Wash buffer iW3

version r	number: GHS 1.0	date of compilation: 2019-11-22	
	abbr.	descriptions of used abbreviations	
	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)	

#### 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).

#### 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 iW4

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

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

## 1.1 product identifier

trade name

registration number (REACH)

Wash buffer iW4

not relevant (mixture)

## 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

results of PBT and vPvB assessment this mixture does not contain any substances that are assessed to be a PBT or a vPvB.



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

## Wash buffer iW4

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

**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 iW4

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

## **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 iW4

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

**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	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)



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

## Wash buffer iW4

revision: 2019-12-23

version number: GHS 3.0
replaces version of: 2019-12-02 (GHS 2)

explosive limits	not determined
vapour pressure	not determined
density	1 <sup>g</sup> / <sub>cm³</sub> at 20 °C
vapour density	this information is not available
solubility(ies)	not determined
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

## **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)

## Wash buffer iW4

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

## **SECTION 11: Toxicological information**

## 11.1 information on toxicological effects

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.

### **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.



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

## Wash buffer iW4

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

#### 12.6 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** 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 to a packing group 14.5 environmental hazards 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

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



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

## Wash buffer iW4

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

## **SECTION 16: Other information**

## indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
3.2	mixtures: description of the mixture	mixtures: description of the mixture	yes
		This mixture does not contain any potentially hazard- ous products.	

### 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		
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).

### 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)

## **Elution Buffer iE1**

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

trade name

registration number (REACH) product code(s) **Elution Buffer iE1** 

not relevant (mixture)

C01019014

## 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

there is no additional information.

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.



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

## **Elution Buffer iE1**

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

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Sodium dodecyl sulphate	CAS No 151-21-3 EC No 205-788-1 REACH Reg. No 01-2119489461-32-xxxx	≤2	Flam. Sol. 2 / H228 Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 Aquatic Chronic 3 / H412	

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

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

#### 5.1 extinguishing media

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

unsuitable extinguishing media

water jet



version number: GHS 2.0

## Safety Data Sheet

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

## **Elution Buffer iE1**

revision: 2019-12-23

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

### 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.

#### **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

### 7.3 specific end use(s)

see section 16 for a general overview.



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

## **Elution Buffer iE1**

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.

relevant DNELs of components of the mixture						
name of substance	CAS No	endpoint	threshold level	protection goal, route of exposure	used in	exposure time
Sodium dodecyl sulph- ate	151-21-3	DNEL	285 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Sodium dodecyl sulph- ate	151-21-3	DNEL	4,060 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

relevant PNECs of components of the mixture						
name of substance	CAS No	endpoint	threshold level	organism	environmental compartment	exposure time
Sodium dodecyl sulph- ate	151-21-3	PNEC	0.176 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Sodium dodecyl sulph- ate	151-21-3	PNEC	0.018 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
Sodium dodecyl sulph- ate	151-21-3	PNEC	1.35 <sup>mg</sup> /1	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sodium dodecyl sulph- ate	151-21-3	PNEC	6.97 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Sodium dodecyl sulph- ate	151-21-3	PNEC	0.697 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Sodium dodecyl sulph- ate	151-21-3	PNEC	1.29 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)

## 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.



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

## **Elution Buffer iE1**

revision: 2019-12-23

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

### 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

	1
pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
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)	not determined
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

9.2



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

## **Elution Buffer iE1**

revision: 2019-12-23

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

## **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.

## **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

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).



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

## **Elution Buffer iE1**

revision: 2019-12-23

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

#### 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.

### **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.



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

## **Elution Buffer iE1**

revision: 2019-12-23

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

## 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

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- evant
1.1		product code(s): C01019014	yes
3.2	mixtures	mixtures: description of the mixture	yes
8.1		relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		relevant PNECs of components of the mixture: change in the listing (table)	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)	
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard	
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)	



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

version number: GHS 2.0

## **Safety Data Sheet**

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

## **Elution Buffer iE1**

revision: 2019-12-23

abbr.	descriptions of used abbreviations	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
Flam. Sol.	Flammable solid	
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)	
ICA0	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	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
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 cor cerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	
STOT SE	Specific target organ toxicity - single exposure	
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).

### 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
H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.



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

## **Elution Buffer iE1**

revision: 2019-12-23

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

code	text
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

## 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)

## elution buffer iE2

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

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

### 1.1 product identifier

trade name

registration number (REACH)

elution buffer iE2

not relevant (mixture)

## 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

results of PBT and vPvB assessment this mixture does not contain any substances that are assessed to be a PBT or a vPvB.



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

## elution buffer iE2

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

## **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)

## elution buffer iE2

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

## **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)

## elution buffer iE2

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

## **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	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)



version number: GHS 3.0

## **Safety Data Sheet**

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

## elution buffer iE2

revision: 2019-12-23

number: GHS 3.0 5 version of: 2019-12-02 (GHS 2)	revision: 2
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)	not determined
partition coefficient	
- n-octanol/water (log KOW)	this information is not available

2	other information	there is no additional information
	oxidising properties	none
	explosive properties	none
	viscosity	not determined
	auto-ignition temperature	not determined
	- n-octanol/water (log KOW)	this information is not available

## **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)

## elution buffer iE2

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

## **SECTION 11: Toxicological information**

## 11.1 information on toxicological effects

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.

### **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.



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

## elution buffer iE2

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

#### 12.6 other adverse effects

data are not available.

## **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**

14.1UN numbernot subject to transport regulations14.2UN proper shipping namenot relevant14.3transport hazard class(es)none14.4packing groupnot assigned to a packing group14.5environmental hazardsnon-environmentally hazardous acc. to the danger-<br/>ous 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.



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

## elution buffer iE2

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

## **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- evant
3.2	mixtures: description of the mixture	mixtures: description of the mixture	yes
		This mixture does not contain any potentially hazard- ous products.	

#### 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	
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).

### 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).



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

## elution buffer iE2

revision: 2019-12-23

version number: GHS 3.0 replaces version of: 2019-12-02 (GHS 2)

### disclaimer

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