

# D-Plex Total RNA-seq Kit for Illumina C05030031

# **Flyleaf**

Date of compilation: 2021-05-17

### **Bill of materials**

Name of substance	Identifier	Number	Classification	Dictograms	Page.
Name of Substance	Identifier	of pieces	acc. to GHS	Pictograms	Page
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Tailing Buffer (TB)		1			36 - 43
Reverse Transcription Reagent (RTR)		1			44 – 51
Reverse Transcription Buffer (RTB)		1			52 - 59
RT primer H UDI (RTPH_UDI)		1			60 – 67
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PCR master mix (PCRMM)		1			84 – 92
ChIP-seq grade water		1			93 – 100
Positive Control HBR (CTL+)		1			101 – 108



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

## Fragmentation buffer (FB)

version number: GHS 1.0 date of compilation: 2021-05-17

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

### 1.1 product identifier

trade name Fragmentation buffer (FB)

registration number (REACH) 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 of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

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

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

#### 2.1 classification of the substance or mixture

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

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

#### 2.2 label elements

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

#### 2.3 other hazards

of no significance

### **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.

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

## Fragmentation buffer (FB)

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#### **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.

#### **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.

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

## Fragmentation buffer (FB)

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### 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.

## **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.

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

## Fragmentation buffer (FB)

version number: GHS 1.0 date of compilation: 2021-05-17

#### skin protection

#### - hand protection

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

#### - other protection measures

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

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

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

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

### 9.1 information on basic physical and chemical properties

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

#### partition coefficient

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

vapour pressure	not determined

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

## Fragmentation buffer (FB)

version number: GHS 1.0 date of compilation: 2021-05-17

#### density and/or relative density

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

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

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

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

#### 10.1 reactivity

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

#### 10.2 chemical stability

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

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

#### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

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

## **SECTION 11: Toxicological information**

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

test data are not available for the complete mixture.

classification procedure

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

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

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

acute toxicity

shall not be classified as acutely toxic.

### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

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

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

## Fragmentation buffer (FB)

version number: GHS 1.0 date of compilation: 2021-05-17

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

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

#### specific target organ toxicity - repeated exposure

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

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

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

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 endocrine disrupting properties

information on this property is not available.

#### 12.7 other adverse effects

data are not available.

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

## 13.1 waste treatment methods

sewage disposal-relevant information

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

#### waste treatment of containers/packagings

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

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

## Fragmentation buffer (FB)

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#### remarks

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

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

14.1 UN number or ID number not subject to transport regulation	or ID number not subject to transport regulations
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14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

## 14.7 maritime transport in bulk according to IMO instruments

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG) - additional information** not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - additional information** not subject to ICAO-IATA.

## **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 Waterways)	
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	

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

## Fragmentation buffer (FB)

version number: GHS 1.0 date of compilation: 2021-05-17

abbr.	descriptions of used abbreviations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

## key literature references and sources for data

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

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

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

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

### disclaimer

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

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

## **Dephosphorylation reagent (DR)**

version number: GHS 1.0 date of compilation: 2020-02-28

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

### 1.1 product identifier

trade name Dephosphorylation reagent (DR)

registration number (REACH) not relevant (mixture)

product code(s) K14421002

#### 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 of-

fice 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.

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

## **Dephosphorylation reagent (DR)**

version number: GHS 1.0 date of compilation: 2020-02-28

#### **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), 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.

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

## **Dephosphorylation reagent (DR)**

version number: GHS 1.0 date of compilation: 2020-02-28

#### **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

7.3 specific end use(s)

see section 16 for a general overview.

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

## **Dephosphorylation reagent (DR)**

version number: GHS 1.0 date of compilation: 2020-02-28

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

#### 8.1 control parameters

occupational exposure limit values (Workplace Exposure Limits) name of agent **CAS No** identi-**TWA STEL** Ceiling-C Ceiling-C coun-**TWA STEL** notasource fier [ppm] [mg/m<sup>3</sup>] $[mg/m^3]$  $[mg/m^3]$ try [ppm] [ppm] tion WEL GB 56-81-5 10 EH40/ glycerol mist 2005

notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

mist as mists

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

less otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified)

## 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

· FF - 1 - 1 - 1	
physical state	liquid
colour	colourless
odour	odourless

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

## **Dephosphorylation reagent (DR)**

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### 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	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

# 9.2 other information there is no additional information

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

#### 10.1 reactivity

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

## 10.2 chemical stability

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

## 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

## 10.5 incompatible materials

oxidisers

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

## **Dephosphorylation reagent (DR)**

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## 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).

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.

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

## **Dephosphorylation reagent (DR)**

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#### 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**

444	TTNT 1	
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.

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

## **Dephosphorylation reagent (DR)**

version number: GHS 1.0 date of compilation: 2020-02-28

#### **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 Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
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	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
STEL	Short-term exposure limit	
TWA	Time-weighted average	
vPvB	Very Persistent and very Bioaccumulative	
WEL	Workplace exposure limit	

## 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).

United Kingdom: en page: 8 / 9



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

# Dephosphorylation reagent (DR)

version number: GHS 1.0 date of compilation: 2020-02-28

### disclaimer

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

United Kingdom: en page: 9 / 9



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

## Dephosphorylation buffer (DB)

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2020-02-28 (GHS 1)

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

## 1.1 product identifier

trade name Dephosphorylation buffer (DB)

registration number (REACH) not relevant (mixture)

product code(s) K14421001

## 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 of-

fice 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.

United Kingdom: en page: 1 / 8



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

## Dephosphorylation buffer (DB)

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2020-02-28 (GHS 1)

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

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

This mixture does not contain any potentially hazardous products.

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

### 4.1 description of first aid measures

#### general notes

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

#### following inhalation

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

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

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

### following ingestion

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

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

symptoms and effects are not known to date.

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

none

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

#### 5.1 extinguishing media

suitable extinguishing media

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

unsuitable extinguishing media

water jet

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

#### 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.

United Kingdom: en page: 2 / 8



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

## Dephosphorylation buffer (DB)

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2020-02-28 (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.

United Kingdom: en page: 3 / 8



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

## Dephosphorylation buffer (DB)

version number: GHS 2.0 revision: 2020-02-28 (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	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)

United Kingdom: en page: 4 / 8



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

## Dephosphorylation buffer (DB)

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2020-02-28 (GHS 1)

explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	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

9.2	other information	there is no additional information

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

## 10.1 reactivity

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

### 10.2 chemical stability

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

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

## 10.4 conditions to avoid

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

#### 10.5 incompatible materials

there is no additional information.

## 10.6 hazardous decomposition products

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

United Kingdom: en page: 5 / 8



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

## Dephosphorylation buffer (DB)

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2020-02-28 (GHS 1)

## **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.

United Kingdom: en page: 6 / 8



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

## **Dephosphorylation buffer (DB)**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2020-02-28 (GHS 1)

#### 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.

#### 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.

United Kingdom: en page: 7 / 8



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

## Dephosphorylation buffer (DB)

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2020-02-28 (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
1.1		product code(s): K14421001	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 Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR Dangerous Goods Regulations (see IATA/DGR)		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG International Maritime Dangerous Goods Code		
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 (Reg		
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.

United Kingdom: en page: 8 / 8



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

## Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

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

### 1.1 product identifier

trade name Tailing reagent (TR)

registration number (REACH) not relevant (mixture)

product code(s) K14421004

#### 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 of-

fice 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.

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

## Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

#### **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), 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.

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

## Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

#### **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.

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

## Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

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

#### 8.1 control parameters

occupational exposure limit values (Workplace Exposure Limits) name of agent **CAS No** identi-**TWA STEL** Ceiling-C Ceiling-C coun-**TWA STEL** notasource fier [ppm] [mg/m<sup>3</sup>] $[mg/m^3]$  $[mg/m^3]$ try [ppm] [ppm] tion WEL GB 56-81-5 10 EH40/ glycerol mist

2005

notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

mist as mists

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

less otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified)

## 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

TP	
physical state	liquid
colour	colourless
odour	odourless

United Kingdom: en page: 4 / 9



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

## Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

### 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	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	

# 9.2 other information there is no additional information

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

#### 10.1 reactivity

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

#### 10.2 chemical stability

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

## 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

## 10.5 incompatible materials

oxidisers

United Kingdom: en page: 5 / 9



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

## Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

## 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).

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.

United Kingdom: en page: 6 / 9



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

## Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

#### 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**

444	TTNT 1	
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.

United Kingdom: en page: 7 / 9



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

## Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

#### **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 Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
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	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
STEL Short-term exposure limit		
TWA Time-weighted average		
vPvB Very Persistent and very Bioaccumulative		
WEL Workplace exposure limit		

## 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).

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

# Tailing reagent (TR)

version number: GHS 1.0 date of compilation: 2020-02-28

### disclaimer

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

United Kingdom: en page: 9 / 9



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

## Tailing Buffer (TB)

version number: GHS 1.0 date of compilation: 2021-05-17

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

### 1.1 product identifier

trade name

Tailing Buffer (TB)

registration number (REACH)

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 of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

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

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

#### 2.1 classification of the substance or mixture

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

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

#### 2.2 label elements

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

#### 2.3 other hazards

of no significance

### **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.

United Kingdom: en page: 1 / 8



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

## Tailing Buffer (TB)

version number: GHS 1.0 date of compilation: 2021-05-17

#### **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.

### **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.

United Kingdom: en page: 2 / 8



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

## Tailing Buffer (TB)

version number: GHS 1.0 date of compilation: 2021-05-17

### 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.

United Kingdom: en page: 3 / 8



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

## Tailing Buffer (TB)

version number: GHS 1.0 date of compilation: 2021-05-17

#### skin protection

#### - hand protection

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

#### - other protection measures

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

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

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

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

### 9.1 information on basic physical and chemical properties

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

### partition coefficient

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

vapour pressure	not determined

United Kingdom: en page: 4 / 8



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

## Tailing Buffer (TB)

version number: GHS 1.0 date of compilation: 2021-05-17

#### density and/or relative density

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

particle characteristics	not relevant (liquid)
--------------------------	-----------------------

#### 9.2 other information

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

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

#### 10.1 reactivity

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

### 10.2 chemical stability

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

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

#### 10.5 incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

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

## **SECTION 11: Toxicological information**

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

test data are not available for the complete mixture.

classification procedure

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

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

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

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

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

United Kingdom: en page: 5 / 8



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

## Tailing Buffer (TB)

version number: GHS 1.0 date of compilation: 2021-05-17

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

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

#### specific target organ toxicity - repeated exposure

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

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

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

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 endocrine disrupting properties

information on this property is not available.

#### 12.7 other adverse effects

data are not available.

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

### 13.1 waste treatment methods

sewage disposal-relevant information

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

### waste treatment of containers/packagings

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

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

## Tailing Buffer (TB)

version number: GHS 1.0 date of compilation: 2021-05-17

#### remarks

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

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

14.1	UN number or ID number	not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - additional information not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information not subject to ICAO-IATA.

### **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 Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement 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

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

# Tailing Buffer (TB)

version number: GHS 1.0 date of compilation: 2021-05-17

abbr.	descriptions of used abbreviations			
IATA	International Air Transport Association			
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)			
ICAO	International Civil Aviation Organization			
IMDG	International Maritime Dangerous Goods Code			
PBT	Persistent, Bioaccumulative and Toxic			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals			
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)			
vPvB	Very Persistent and very Bioaccumulative			

### key literature references and sources for data

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

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

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

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

### disclaimer

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

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

## **Reverse Transcription Reagent (RTR)**

version number: GHS 1.0 date of compilation: 2021-01-12

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

### 1.1 product identifier

trade name Reverse Transcription Reagent (RTR)

registration number (REACH) not relevant (mixture)

product code(s) K15821004

### 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

### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

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

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

#### 2.1 classification of the substance or mixture

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

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

#### 2.2 label elements

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

#### 2.3 other hazards

of no significance

## **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.

United Kingdom: en page: 1/8



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

## **Reverse Transcription Reagent (RTR)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### **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), 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.

United Kingdom: en page: 2 / 8



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

## **Reverse Transcription Reagent (RTR)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### 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**

#### precautions for safe handling 7.1

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

occupational exposure limit values (Workplace Exposure Limits)

coun- try	name of agent	CAS No	identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]		source
GB	glycerol	56-81-5	WEL		10					mist	EH40/ 2005

notation

TWA

Ceiling-C mist

ceiling value is a limit value above which exposure should not occur

as mists

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

less otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified)

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

## **Reverse Transcription Reagent (RTR)**

version number: GHS 1.0 date of compilation: 2021-01-12

### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

### skin protection

#### - hand protection

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

#### - other protection measures

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

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

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

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

### 9.1 information on basic physical and chemical properties

physical state	liquid
colour	colourless
odour	odourless
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined
flammability	this material is combustible, but will not ignite readily
lower and upper explosion limit	not determined
flash point	not determined
auto-ignition temperature	not determined
decomposition temperature	not relevant
pH (value)	not determined
kinematic viscosity	not determined
solubility(ies)	not determined

United Kingdom: en page: 4 / 8



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

## **Reverse Transcription Reagent (RTR)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### partition coefficient

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

particle characteristics no data available

#### 9.2 other information

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

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

#### 10.1 reactivity

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

### 10.2 chemical stability

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

### 10.3 possibility of hazardous reactions

no known hazardous reactions.

### 10.4 conditions to avoid

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

#### 10.5 incompatible materials

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 hazard classes as defined in Regulation (EC) No 1272/2008

test data are not available for the complete mixture.

classification procedure

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

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

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

United Kingdom: en page: 5 / 8



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

## **Reverse Transcription Reagent (RTR)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

### serious eye damage/eye irritation

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

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

### specific target organ toxicity - single exposure

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

### specific target organ toxicity - repeated exposure

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

### aspiration hazard

shall not be classified as presenting an aspiration hazard.

### 11.2 information on other hazards

there is no additional information.

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

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 endocrine disrupting properties

information on this property is not available.

### 12.7 other adverse effects

data are not available.

United Kingdom: en page: 6 / 8



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

## **Reverse Transcription Reagent (RTR)**

version number: GHS 1.0 date of compilation: 2021-01-12

### **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 assigned

14.3 transport hazard class(es) none

**14.4** packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

not assigned

International Maritime Dangerous Goods Code (IMDG) - additional information

not subject to IMDG.

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

not subject to ICAO-IATA.

## **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.

United Kingdom: en page: 7 / 8



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

## **Reverse Transcription Reagent (RTR)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### **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 Waterways)
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)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
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
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
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)
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### key literature references and sources for data

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

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

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

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

#### disclaimer

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

United Kingdom: en page: 8 / 8



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

## **Reverse Transcription Buffer (RTB)**

version number: GHS 1.0 date of compilation: 2021-01-12

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

### 1.1 product identifier

trade name Reverse Transcription Buffer (RTB)

registration number (REACH) not relevant (mixture)

product code(s) K15821005

### 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

### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

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

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

#### 2.1 classification of the substance or mixture

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

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

#### 2.2 label elements

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

#### 2.3 other hazards

of no significance

### **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.

United Kingdom: en page: 1 / 8



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

## **Reverse Transcription Buffer (RTB)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### **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), 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.

United Kingdom: en page: 2 / 8



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

## **Reverse Transcription Buffer (RTB)**

version number: GHS 1.0 date of compilation: 2021-01-12

### 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

occupational exposure limit values (Workplace Exposure Limits)

coun- try	name of agent	CAS No	identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [mg/m³]		source
GB	glycerol	56-81-5	WEL		10				mist	EH40/ 2005

notation

Ceiling-C

mist

TWA

ceiling value is a limit value above which exposure should not occur

as mists

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

less otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified)

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

## **Reverse Transcription Buffer (RTB)**

version number: GHS 1.0 date of compilation: 2021-01-12

### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

### skin protection

#### - hand protection

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

#### - other protection measures

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

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

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

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

### 9.1 information on basic physical and chemical properties

physical state	liquid
colour	colourless
odour	odourless
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined
flammability	this material is combustible, but will not ignite readily
lower and upper explosion limit	not determined
flash point	not determined
auto-ignition temperature	not determined
decomposition temperature	not relevant
pH (value)	not determined
kinematic viscosity	not determined
solubility(ies)	not determined

United Kingdom: en page: 4 / 8



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

## **Reverse Transcription Buffer (RTB)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### partition coefficient

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

particle characteristics	no data available
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#### 9.2 other information

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

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

#### 10.1 reactivity

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

### 10.2 chemical stability

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

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

### 10.4 conditions to avoid

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

#### 10.5 incompatible materials

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 hazard classes as defined in Regulation (EC) No 1272/2008

test data are not available for the complete mixture.

classification procedure

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

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

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

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

## **Reverse Transcription Buffer (RTB)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

### serious eye damage/eye irritation

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

### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

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

#### specific target organ toxicity - repeated exposure

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

### aspiration hazard

shall not be classified as presenting an aspiration hazard.

### 11.2 information on other hazards

there is no additional information.

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

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 endocrine disrupting properties

information on this property is not available.

### 12.7 other adverse effects

data are not available.

United Kingdom: en page: 6 / 8



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

## **Reverse Transcription Buffer (RTB)**

version number: GHS 1.0 date of compilation: 2021-01-12

### **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
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14.2 UN proper shipping name not assigned

14.3 transport hazard class(es) none

**14.4** packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

not assigned

International Maritime Dangerous Goods Code (IMDG) - additional information

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

## **SECTION 15: Regulatory information**

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

### 15.2 Chemical Safety Assessment

not subject to ICAO-IATA.

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

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

# **Reverse Transcription Buffer (RTB)**

version number: GHS 1.0 date of compilation: 2021-01-12

#### **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 Waterways)
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)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
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
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
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)
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### key literature references and sources for data

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

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

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

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

#### disclaimer

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

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

## RT primer H UDI (RTPH\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

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

### 1.1 product identifier

trade name RT primer H UDI (RTPH\_UDI)

registration number (REACH) 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 of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

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

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

### 2.1 classification of the substance or mixture

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

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

#### 2.2 label elements

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

### 2.3 other hazards

of no significance

### **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.

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

## RT primer H UDI (RTPH\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### **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.

#### **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.

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

## RT primer H UDI (RTPH\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

### 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.

### **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.

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

## RT primer H UDI (RTPH\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### skin protection

#### - hand protection

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

#### - other protection measures

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

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

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

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

### 9.1 information on basic physical and chemical properties

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

### partition coefficient

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

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

## RT primer H UDI (RTPH\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### density and/or relative density

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

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

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

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

#### 10.1 reactivity

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

### 10.2 chemical stability

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

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

#### 10.5 incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

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

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

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

test data are not available for the complete mixture.

classification procedure

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

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

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

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

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

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

## RT primer H UDI (RTPH\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

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

#### specific target organ toxicity - repeated exposure

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

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

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

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 endocrine disrupting properties

information on this property is not available.

#### 12.7 other adverse effects

data are not available.

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

### 13.1 waste treatment methods

sewage disposal-relevant information

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

### waste treatment of containers/packagings

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

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

## RT primer H UDI (RTPH\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### remarks

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

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

14.1	UN number or ID number	not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG) - additional information** not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - additional information** not subject to ICAO-IATA.

### **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 Waterways)	
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	

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

## RT primer H UDI (RTPH\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

abbr.	descriptions of used abbreviations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

### key literature references and sources for data

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

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

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

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

### disclaimer

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

United Kingdom: en page: 8 / 8



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

## RT Primer M UDI (RTPM\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

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

### 1.1 product identifier

trade name RT Primer M UDI (RTPM\_UDI)

registration number (REACH) 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 of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

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

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

### 2.1 classification of the substance or mixture

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

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

#### 2.2 label elements

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

### 2.3 other hazards

of no significance

### **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.

United Kingdom: en page: 1 / 8



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

## RT Primer M UDI (RTPM\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### **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.

#### **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.

United Kingdom: en page: 2 / 8



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

## RT Primer M UDI (RTPM\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

### 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.

#### **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.

United Kingdom: en page: 3 / 8



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

## RT Primer M UDI (RTPM\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### skin protection

#### - hand protection

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

#### - other protection measures

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

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

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

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

### 9.1 information on basic physical and chemical properties

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

### partition coefficient

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

vapour pressure	not determined

United Kingdom: en page: 4 / 8



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

## RT Primer M UDI (RTPM\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### density and/or relative density

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

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

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

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

#### 10.1 reactivity

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

### 10.2 chemical stability

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

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

#### 10.5 incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

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

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

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

test data are not available for the complete mixture.

classification procedure

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

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

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

acute toxicity

shall not be classified as acutely toxic.

### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

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

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

# RT Primer M UDI (RTPM\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

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

#### specific target organ toxicity - repeated exposure

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

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

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

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

# 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 endocrine disrupting properties

information on this property is not available.

#### 12.7 other adverse effects

data are not available.

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

# 13.1 waste treatment methods

sewage disposal-relevant information

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

#### waste treatment of containers/packagings

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

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

# RT Primer M UDI (RTPM\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### remarks

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

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

14.1	UN number or ID number	not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - additional information not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - additional information** not subject to ICAO-IATA.

# **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 Waterways)	
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	

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

# RT Primer M UDI (RTPM\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

abbr.	descriptions of used abbreviations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

# key literature references and sources for data

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

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

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

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

### disclaimer

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

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

# Template Switching Oligo UDI (TSO\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

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

### 1.1 product identifier

trade name Template Switching Oligo UDI (TSO\_UDI)

registration number (REACH) 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 of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

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

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

#### 2.1 classification of the substance or mixture

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

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

#### 2.2 label elements

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

#### 2.3 other hazards

of no significance

### **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.

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

# Template Switching Oligo UDI (TSO\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### **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.

#### **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.

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

# Template Switching Oligo UDI (TSO\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

### 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.

#### **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.

United Kingdom: en page: 3 / 8



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

# Template Switching Oligo UDI (TSO\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### skin protection

#### - hand protection

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

#### - other protection measures

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

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

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

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

# 9.1 information on basic physical and chemical properties

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

#### partition coefficient

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

vapour pressure	not determined

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

# Template Switching Oligo UDI (TSO\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### density and/or relative density

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

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

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

# **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

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

#### 10.2 chemical stability

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

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

#### 10.5 incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

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

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

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

test data are not available for the complete mixture.

classification procedure

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

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

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

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

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

United Kingdom: en page: 5 / 8

# diagendie Innovating Epigenetics Solutions

# **Safety Data Sheet**

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

# Template Switching Oligo UDI (TSO\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

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

#### specific target organ toxicity - repeated exposure

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

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

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

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 endocrine disrupting properties

information on this property is not available.

#### 12.7 other adverse effects

data are not available.

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

# 13.1 waste treatment methods

sewage disposal-relevant information

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

#### waste treatment of containers/packagings

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

United Kingdom: en page: 6 / 8



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

# Template Switching Oligo UDI (TSO\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

#### remarks

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

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

14.1	UN number or ID number	not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

# 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG) - additional information** not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - additional information** not subject to ICAO-IATA.

# **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 Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement 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	

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

# Template Switching Oligo UDI (TSO\_UDI)

version number: GHS 1.0 date of compilation: 2021-05-17

abbr.	descriptions of used abbreviations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

# key literature references and sources for data

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

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

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

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

### disclaimer

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

United Kingdom: en page: 8 / 8



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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

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

### 1.1 product identifier

trade name PCR master mix (PCRMM)

registration number (REACH) not relevant (mixture)

product code(s) K14421011

#### 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 of-

fice 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.

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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

# **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

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.

United Kingdom: en page: 2 / 9



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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

#### **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.

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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

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

#### 8.1 control parameters

occupational exposure limit values (Workplace Exposure Limits) name of agent **CAS No** identi-**TWA STEL** Ceiling-C Ceiling-C coun-**TWA STEL** notasource fier [ppm] [mg/m<sup>3</sup>] $[mg/m^3]$  $[mg/m^3]$ try [ppm] [ppm] tion WEL GB 56-81-5 10 EH40/ glycerol mist 2005

notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

mist as mists

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

less otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified)

# 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

TP	
physical state	liquid
colour	colourless
odour	odourless

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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

# 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	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

# 9.2 other information there is no additional information

# **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

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

#### 10.2 chemical stability

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

# 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

# 10.5 incompatible materials

oxidisers

United Kingdom: en page: 5 / 9



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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

# 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).

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.

United Kingdom: en page: 6 / 9



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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

#### 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**

444	TTNT 1	
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.

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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

# **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 Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

# 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).

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

# PCR master mix (PCRMM)

version number: GHS 1.0 date of compilation: 2020-02-28

### disclaimer

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

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

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 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 ChIP-seq grade water

registration number (REACH) this information is not available

CAS number 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 of-

fice 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.

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

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 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  $18.02 \, {}^{\rm g}\!/_{\rm mol}$ 

### **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.

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

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 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.

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

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 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)

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

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 (GHS 1)

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

# **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.

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

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 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.

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

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 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	not subject to transport regulations
T-T-T	OIN HUHHIDCE	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

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

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

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 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 Waterways)
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
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
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 concerning 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.

United Kingdom: en page: 8 / 8



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

# Positive Control HBR (CTL+)

version number: GHS 1.0 date of compilation: 2021-05-17

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

### 1.1 product identifier

trade name Positive Control HBR (CTL+)

registration number (REACH) 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 of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

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

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

#### 2.1 classification of the substance or mixture

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

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

#### 2.2 label elements

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

#### 2.3 other hazards

of no significance

### **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.

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

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#### **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.

#### **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.

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### 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.

#### **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.

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#### skin protection

#### - hand protection

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

#### - other protection measures

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

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

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

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

### 9.1 information on basic physical and chemical properties

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

# partition coefficient

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

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#### density and/or relative density

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

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

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

# **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

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

#### 10.2 chemical stability

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

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

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

#### 10.5 incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

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

# **SECTION 11: Toxicological information**

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

test data are not available for the complete mixture.

classification procedure

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

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

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

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

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

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#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

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

#### specific target organ toxicity - repeated exposure

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

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

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

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 endocrine disrupting properties

information on this property is not available.

#### 12.7 other adverse effects

data are not available.

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

# 13.1 waste treatment methods

sewage disposal-relevant information

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

#### waste treatment of containers/packagings

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

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#### remarks

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

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

14.1	UN number or ID number	not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

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

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG) - additional information** not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - additional information** not subject to ICAO-IATA.

# **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 Waterways)	
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	

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abbr.	descriptions of used abbreviations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

# key literature references and sources for data

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

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

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

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

### disclaimer

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

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