

Trade name: HTRF a-Tubulin House. kit - 500 pts / 64ATUBPEG

Version: KIT, Page 1 of 1, Revision date: 07/09/2023

Cette section présente les différents flacons présents dans le kit. Les fiches de sécurité de tous ces composants sont disponibles dans la langue choisie à la suite du document.

This section shows all the vials in the kit. The Safety Datasheets are available in the selected language in the next part of the document.

# Nomenclature of the product

Description	Component	Nb of vials	рН	Color	Physical state
HTRF Diluent 8 - 10 mL		1	7	Colorless	Liquid
HTRF a-Tubulin House. kit - 500 pts d2 antibody		1	7	Blue	Liquid
HTRF a-Tubulin House. kit - 500 pts Eu Cryptate antibody		1	7	Colorless	Liquid
HTRF a-Tubulin House. kit - Ctrl lysate	64ATUBTDA	1	7	Colorless	Liquid
HTRF P-T prot Block. reag.(100X) 2 mL	64KB1AAC	1	-	Colorless	Liquid
HTRF P-T prot Lysis Buf.4 (4X) 2 mL		4	7	Colorless	Liquid
HTRF P-T prot Detect. Buf. 2 mL		2	7	Colorless	Liquid





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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier:

Designation / Commercial name : HTRF a-Tubulin House. kit - Ctrl lysate 64ATUBTDA

CAS No.: Index No: EC No: REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only; Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.;

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

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA - Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone: +33 4 66 79 67 05 - Fax: +33 4 66 79 67 50 E-Mail (competent person): codolet.sds@revvity.com

#### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS): +33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

https://www.cisbio.com https://www.revvity.com

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

## **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008	None	None	None

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

#### Product identifier:

Designation / Commercial name : HTRF a-Tubulin House. kit - Ctrl lysate 64ATUBTDA

Substances contained in this product:



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**Hazard pictograms** 

Signal word:

**Hazard and precautionary statements:** 

#### 2.3 Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC) published by the European CHemicals Agency (ECHA) under article 57 of REACH at levels of 0.1% or higher. This substance or mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher;

Adverse human health effects and symptoms:



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

#### Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (%)	SCL	M-factor
4-(2- hydroxyethyl)piperazin-1- ylethanesulphonic acid	7365-45-9		230-907-9		< 3%		
Poly(oxy-1,2-ethanediyl), $\alpha$ -[4-(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy-	9002-93-1			Acute toxicity - Acute Tox. 4 - H302 - Oral Hazardous to the aquatic environment - Aquatic Acute 1 - H400 Hazardous to the aquatic environment - Aquatic Chronic 1 - H410 Serious eye damage/eye irritation - Eye Dam. 1 - H318 Skin corrosion/irritation - Skin Irrit. 2 - H315	< 1%		

# Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

# **SECTION 4: FIRST AID MEASURES**

# 4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

Following inhalation: In case of respiratory tract irritation, consult a physician.;

Following skin contact: After contact with skin, wash immediately with water;

**Following eye contact**: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.;

Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

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

 $\label{eq:continuous} \mbox{Symptoms:No known symptoms to date.} \ ;$ 

Effects:

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

Notes for the doctor:

# **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;



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

Hazardous combustion products:/

## 5.3 Advice for fire-fighters

Wear Protective clothing.;

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.;

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

For cleaning up:Suitable material for taking up: Absorbing material, organic; Other information:

## 6.4 Reference to other sections

Additional information:

### **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

**Protective measures:** 

Advice on safe handling: Avoid contact with skin, eyes and clothes.;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled.;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice;

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

Technical measures and storage conditions:

Requirements for storage rooms and vessels: Keep container tightly closed.;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

#### 7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.;

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

Preliminary remark:



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# 8.1.1 <u>Occupational exposure limits:</u>

France

Source :	Informations rela	nformations relatives à la réglementation VME (France) : ED 984, 07.2012								
Substance	EC-No.	EC-No.         CAS-No         VLE (mg/m3)         VLE (ppm)         VME (mg/m3)         VME (ppm)								
7365-45-9 / 230- 907-9	230-907-9	7365-45-9								

• Spain

Source :	•	mites de Exposicion Profesional para Agentes Quimicos en Espana stituto Nacional de Seguridad e Higiene en el Trabajo ne 2015							
Substance	EC-No.	CAS-No	VLA-EC (mg/m3)	VLA-EC (ppm)	VLA-ED (mg/m3)	VLA-ED (ppm)			
7365-45-9 / 230- 907-9	230-907-9	7365-45-9							

Germany

Source :	RGS 900, June 2015, BAuA							
Substance	EC-No. CAS-No AGW (mg/m3) AGW (ppm)							
7365-45-9 / 230-907-9	230-907-9	7365-45-9						

- Italia
- Greece
- UK
- OSHA (USA)

Source : Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000	
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	Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8- hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)
7 9	365-45-9 / 230-907-	230-907-9	7365-45-9				

# 8.1.2 <u>Biological limit values (Germany):</u>

Source :	List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs), June 2014							
Substance	EC-No.	EC-No. CAS-No BLV (mg/m3) BLV						
7365-45-9 / 230-907-9	230-907-9	7365-45-9						

# 8.1.3 Exposure limits at intended use (Germany):

Source : TRGS 903, November 2015, BAuA							
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)			
7365-45-9 / 230-907-9	230-907-9	7365-45-9					

# 8.1.4 <u>DNEL/PNEC-values:</u>

DNEL worker

Source :	GESTIS – su	STIS – substance database									
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects		
7365-45-9 / 230-907-9	230-907-9	7365-45-9					23.5-23.5				

## DNEL consumer

Source :	GESTIS – sı	TIS – substance database								
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	dermal, local	systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects	
7365-45-9 / 230-907-9	230-907-9	7365-45-9								

# DNEL remark:

PNEC

Source :	INERIS			
Substance	EC-No.	CAS-No	PNEC AQUATIC	PNEC Sediment



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_																	
			freshwater			marine water			intermittent release			freshwater		er	marine water		er
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907- 9	230-907-9	7365-45-9															

Source :	INERIS													
	EC-No.	CAS-No		Others										
Substance			PNEC soil			PNEC sewage treatment plant			PNEC air			PNEC secondary poisoning		
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9												

PNEC remark:

Control parameters remark:

## 8.2 Exposure controls

8.2.1 <u>Appropriate engineering controls:</u>

8.2.2 <u>Personal protective equipment:</u>

**Eye / Face protection**: Safety glasses with side-shields;

**Skin protection**:Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

8.2.3 <u>Environmental exposure controls:</u>

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1 Information on basic physical and chemical properties

Appearance

Physical state	Liquid;
Colour	Colorless;
Odour	
Odour threshold (ppm)	

		I	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
рН		7					
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling	Initial boiling point/boiling range (°C)						
Flash point (°C)							
Evaporation rate (kg/m²/h)							
Flammability (type : ) (%)	Flammability (type : ) (%)						
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
	Lower explosive limit (%)						



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					V
Vapour pressure (	kPa)				
Vapour density (g	/cm³)				
	Density (g/cm³)				
Densities	Relative density (g/cm³)				
	Bulk density (g/cm³)				
	Critical density (g/cm³)				
Solubility (Type :	) (g/L)				
Partition coefficie n-octanol/water a					
Auto-ignition tem	perature (°C)				
Decomposition te Decomposition er					
Viscosity	Viscosity, dynamic (poiseuille)				
	Viscosity, cinematic (cm <sup>3</sup> /s)				
Oxidising properti	oxidising properties				-
Explosive properti	ies				

# 9.2 Other information:

No other relevant data available

#### **SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity This material is considered to be non-reactive under normal use conditions.;
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

## 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

### **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

# 11.1 Information on toxicological effects

# <u>Substances</u>

Acute toxicity

#### Animal data:

Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
9002-93-1	1800-1800	Rat			



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Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

## • Skin corrosion/irritation

## Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
9002-93-1						

In-vitro skin test method: In-vitro skin test result: Assessment / Classification:

# • Eye damage/irritation

### Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
9002-93-1	Rabbit		Eye irritation			

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:



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Other information:

Assessment / Classification:

Overall assessment on CMR properties:

# • Specific target organ toxicity (single exposure)

o STOT SE 1 and 2

Animal data:

Other information:

o STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

#### Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

## 11.1.1 Mixtures

No toxicological information is available for the mixture itself

#### SECTION 12: ECOLOGICAL INFORMATION

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

# 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Source :	Informations relatives à la réglementation VME (France) : ED 984, 07.2012											
Substance	EC-No.	CAS-No	LC50 (mg/L)	EC50 (mg/L)	Test duration	Species	Result/ Evaluation	Method	Remark	General Remark		



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						V
9002-93-1	9002-93-1	8,9	96	Pimephales promelas (fathead minnow)		

## Chronic (long-term) fish toxicity

Source :	Informations relatives à la réglementation VME (France) : ED 984, 07.2012										
Substance	EC-No.	EC-No. CAS-No NOEC (mg/L) Test duration Species Method Remark General Remark									
9002-93-1		9002-93-1									

# Acute (short-term) toxicity to crustacea

Source :	Information	rmations relatives à la réglementation VME (France) : ED 984, 07.2012								
Substance	EC-No.	CAS-No	EC50 (mg/L)	Test duration	Species	Result/ Evaluation	Method	Remark	General Remark	
9002-93-1		9002-93-1	26	48						

# Chronic (long-term) toxicity to crustacea

Source :	Informations r	ormations relatives à la réglementation VME (France) : ED 984, 07.2012						
Substance	EC-No.	CAS-No	NOEC (mg/L)	Test duration	Species	Method	Remark	General Remark
9002-93-1		9002-93-1						

# Acute (short-term) toxicity to algae and cyanobacteria

Source :	Informations	formations relatives à la réglementation VME (France) : ED 984, 07.2012							
Substance	EC-No.	CAS-No	EC50 (mg/L)	Test duration	Species	Result/ Evaluation	Method	Remark	General Remark
9002-93-1		9002-93-1							

# Toxicity to microorganisms and other aquatic plants / organisms

Source :	Informations rela	ormations relatives à la réglementation VME (France) : ED 984, 07.2012							
Substance	EC-No.	EC-No. CAS-No EC50 (mg/L) Species Method Remark				Remark	General Remark		
9002-93-1		9002-93-1							

Assessment / Classification:

# 12.2 Persistence and degradability

# **Biodegradation:**

Source :	Informations relatives à la réglementation VME (France) : ED 984, 07.2012							
Substance	EC-No.	CAS-No	Inoculum	Biodegradation parameter	Degradation rate (%)	Method	Remark	
9002-93-1		9002-93-1		BOD (% of COD).	36-36		In accordance with the required stability the product is poorly biodegradable.	



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## Abiotic Degradation:

Source :								
Substance	EC-No.	CAS-No	Abiotic degradation test type	Half-life time (j)	Temperature (°C)	рН	Method	Remark
9002-93-1		9002-93-1						

Assessment / Classification:

# 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Source :						
Substance	EC-No.	CAS-No	Species	Result	Method	Remark
9002-93-1		9002-93-1				

# 12.4 Mobility in soil

Source :											
Substance	EC n°	CAS n°	Distribution	Transport	Henry's law constant (Pa.m3/mol)	Log KOC	Half-life time in soil (j)	Half-life time in fresh water (j)	Half-life time in sea water (j)	Method	Remark
9002-93-1		9002- 93-1									

### 12.5 Results of PBT and vPvB assessment

## 12.6 Other adverse effects:

Additional ecotoxicological information:

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.;

## **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	



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Packing group

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Excepted Quantities for ADR/RID: Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:

Mixed packing provisions:

Portable tanks and bulk containers Instructions: Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages: Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG: Packing provisions for IMDG: Limited quantities for IMDG:

Packing instructions for IMDG: IBC Instructions:

IBC Provisions: IMO tank instructions:

UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:

Provisions concerning loading and unloading: Provisions concerning carriage:

Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions: Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:

Passenger and Cargo Aircraft Packaging Instructions : Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions: Cargo Aircraft only Maximal Net Quantity:

ERG code: Special Provisions for IATA:

## **SECTION 15: REGULATORY INFORMATION**

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

## **EU** regulations

Authorisations and/or restrictions on use:

Authorisations: 9002-93-1



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Restrictions on use: SVHC:9002-93-1

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

**National regulations** 

## 15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

## **SECTION 16: OTHER INFORMATION**

## 16.1 Indication of changes

Date of the previous version:06/09/2023 Modifications:

# 16.2 Other informations

## 16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

## 16.4 Relevant R-, H- and EUH-phrases (number and full text):

Code	Hazard statments						
H302	Harmful if swallowed						
H315	Causes skin irritation						
H318	Causes serious eye damage.						
H400	Very toxic to aquatic life						
H410	Very toxic to aquatic life with long lasting effects						





Designation / Commercial name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC

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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier:

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC

CAS No.: Index No: EC No: REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only; Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.;

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

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA - Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone: +33 4 66 79 67 05 - Fax: +33 4 66 79 67 50 E-Mail (competent person): codolet.sds@revvity.com

#### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS): +33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

https://www.cisbio.com https://www.revvity.com

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]	Category code	Hazard statement	Precautionary statement
Serious eye damage/eye irritation - Eye Irrit. 2 - H319	Eye Irrit. 2	H319	P264 P280 P305 + P351 + P338 P337 + P313

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

#### <u>Product identifier:</u>

Designation / Commercial name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC

Substances contained in this product:



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Hazard pictograms
GHS07-exclam



Signal word: Warning

**Hazard and precautionary statements:** 

Code	Hazard statments					
H319	Causes serious eye irritation					
P264	sh thoroughly after handling.					
P280	Wear protective gloves/protective clothing/eye protection/face protection.					
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
P337 + P313	If eye irritation persists: Get medical advice/attention.					

# 2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.; Adverse human health effects and symptoms:



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (%)	SCL	M-factor
disodium dihydrogenpyrophosphate	7758-16-9		D31-835-0	Serious eye damage/eye irritation - Eye Irrit. 2 - H319	< 25%		
trisodium tetraoxovanadate	13721-39-6		237-287-9	Acute toxicity - Acute Tox. 4 - H302 - Oral Acute toxicity - Acute Tox. 4 - H312 - Dermal Acute toxicity - Acute Tox. 4 - H332 - Inhalation Serious eye damage/eye irritation - Eye Irrit. 2 - H319 Skin corrosion/irritation - Skin Irrit. 2 - H315	< 3%		

## Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

## **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

General information:Do not leave affected person unattended.;

Following inhalation: In case of respiratory tract irritation, consult a physician.;

Following skin contact: After contact with skin, wash immediately with water;

**Following eye contact**: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.;

Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

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

Symptoms: No known symptoms to date.;

Effects:

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

Notes for the doctor:

## **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:/



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#### 5.3 Advice for fire-fighters

Wear Protective clothing.;

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.;

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

For cleaning up:Suitable material for taking up: Absorbing material, organic; Other information:

### 6.4 Reference to other sections

Additional information:

## **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

**Protective measures:** 

Advice on safe handling: Avoid contact with skin, eyes and clothes.;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled. ;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice;

# 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Requirements for storage rooms and vessels: Keep container tightly closed.;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

## 7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.;

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Preliminary remark:

### 8.1.1 Occupational exposure limits:

France



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Source :	Informations rela	ormations relatives à la réglementation VME (France) : ED 984, 07.2012										
Substance	EC-No.	CAS-No	VLE (mg/m3)	VLE (ppm)	VME (mg/m3)	VME (ppm)						
13721-39-6 / 237- 287-9	237-287-9	13721-39-6										
7758-16-9 / 231- 835-0	231-835-0	7758-16-9										

# Spain

Source :	•	imites de Exposicion Profesional para Agentes Quimicos en Espana nstituto Nacional de Seguridad e Higiene en el Trabajo une 2015											
Substance	EC-No.	CAS-No	VLA-EC (mg/m3)	VLA-EC (ppm)	VLA-ED (mg/m3)	VLA-ED (ppm)							
13721-39-6 / 237- 287-9	237-287-9	13721-39-6											
7758-16-9 / 231- 835-0	231-835-0	7758-16-9											

# • Germany

Source :	TRGS 900, June 2015, BA	AL		
Substance	EC-No.	CAS-No	AGW (mg/m3)	AGW (ppm)
13721-39-6 / 237-287-9	237-287-9	13721-39-6		
7758-16-9 / 231-835-0	231-835-0	7758-16-9		

- Italia
- Greece
- UK
- OSHA (USA)

6		1: :: (PFLC) (
Source :	Occupational Safety and Health Administration (OSHA) Permissible Exposure	E Limits (PELS) from 29 CFR 1910.1000



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			OSHA Permissible	OSHA Permissible	OSHA Permissible	OSHA Permissible
Substance	EC-No.	CAS-No	Exposure Limit (PEL) 8-hour TWA (ppm)	Exposure Limit (PEL) 8- hour TWA (mg/m3)	Exposure Limit (PEL) STEL (ppm)	Exposure Limit (PEL) STEL (mg/m3)
287-9		13721-39-6				0,05
7758-16-9 / 231-835- 0	231-835-0	7758-16-9				

# 8.1.2 <u>Biological limit values (Germany):</u>

Source :	List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs), June 2014									
Substance	EC-No.	CAS-No	BLV (mg/m3)	BLV (ppm)						
13721-39-6 / 237-287-9	237-287-9	13721-39-6								
7758-16-9 / 231-835-0	231-835-0	7758-16-9								

# 8.1.3 Exposure limits at intended use (Germany):

Source :	TRGS 903, November 201	.5, BAuA		
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)
13721-39-6 / 237-287-9	237-287-9	13721-39-6		
7758-16-9 / 231-835-0	231-835-0	7758-16-9		

# 8.1.4 <u>DNEL/PNEC-values:</u>

DNEL worker

Source :	GESTIS – su	ıbstance data	abase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	systemic ettects	Acute – inhalation, local effects (mg/m3)	cyctemic ettects	Long-term – inhalation, local effects (mg/m3)	systemic ettects
13721-39-6 / 237-287-9	237-287-9	13721-39-6							
7758-16-9 / 231-835-0	231-835-0	7758-16-9					2.79-2.79		

## DNEL consumer

Source :	GESTIS – sı	TIS – substance database												
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	Long-term – dermal, systemic effects (mg/kg/day)	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects					
13721-39-6 / 237-287-9	237-287-9	13721-39-6												



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					~
7758-16-9 / 231-835-0	1-835-0 7758-16-9				

DNEL remark:

PNEC

Source :	INERIS	•		•		•		•	•				•				_
						PNI	EC AQUA	TIC					P	NEC S	edimen	t	
Substance	EC-No.	CAS-No	freshwater		m	marine water		intermittent release		f	reshwate	er	ma	rine wat	:er		
Substance EC-No	LC-NO.		(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
13721-39-6 / 237-287- 9	237-287-9	13721-39-6															
7758-16-9 / 231-835- 0	231-835-0	7758-16-9															

Source :	INERIS													
								Oth	ers					
Substance	EC-No.	C-No. CAS-No	PNEC soil		PNEC sewage treatment plant		PNEC air		PNEC secondary poisoning					
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
13721-39-6 / 237-287-9	237-287-9	13721-39-6												
7758-16-9 / 231-835-0	231-835-0	7758-16-9												

PNEC remark:

Control parameters remark:

## 8.2 Exposure controls

8.2.1 Appropriate engineering controls:

# 8.2.2 <u>Personal protective equipment:</u>

**Eye / Face protection**: Safety glasses with side-shields;

Skin protection: Gloves;

**Respiratory protection**: Ensure adequate ventilation;

Thermal hazards:

8.2.3 <u>Environmental exposure controls:</u>



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# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1 Information on basic physical and chemical properties

# <u>Appearance</u>

Physical state	Liquid;
Colour	Colorless;
Odour	
Odour threshold (ppm)	

		Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
рН							
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling	g range (°C)						
Flash point (°C)							
Evaporation rate (kg/m²/h	n)						
Flammability (type : ) (%)							
Upper/lower flammability or explosive limits	Upper explosive limit (%)  Lower explosive limit (%)						
Vapour pressure (kPa)							
Vapour density (g/cm³)							
	Density (g/cm³)						
Densities	Relative density (g/cm³)						
	Bulk density (g/cm³)						
	Critical density (g/cm³)						
Solubility (Type: ) (g/L)							
Partition coefficient (log P n-octanol/water at pH:	ow)						
Auto-ignition temperature	e (°C)						
Decomposition temperatu Decomposition energy: k							
Viscosity	Viscosity, dynamic (poiseuille)						
	Viscosity, cinematic (cm³/s)						
Oxidising properties			•				
Explosive properties							

## 9.2 Other information:

No other relevant data available



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# **SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity This material is considered to be non-reactive under normal use conditions.;
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

## 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

#### 11.1 Information on toxicological effects

#### <u>Substances</u>

## Acute toxicity

## Animal data:

Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
13721-39-6 / 237-287-9	330-330	Rat		Hemorragie	

## Acute dermal toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Remark
13721-39-6 / 237-287-9				

## Acute inhalative toxicity:

Substance name	C(E)L50 (mg/L)	Exposure time	Species	Method	Remark
13721-39-6 / 237-287-9					

Practical experience / human evidence:

Assessment / Classification:

General Remark:

# • Skin corrosion/irritation



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#### Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
13721-39-6 / 237-287-						
9						

In-vitro skin test method: In-vitro skin test result: Assessment / Classification:

• Eye damage/irritation

# Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
13721-39-6 / 237-287-						
9						
7758-16-9 / 231-835-0	Rabbit	OECD 405		Eye irritation		

In vitro eye test method: In vitro eye test result: Assessment / Classification:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- Specific target organ toxicity (single exposure)
  - o STOT SE 1 and 2



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Animal data:

Other information:

STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

• Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

#### Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

## 11.1.1 Mixtures

No toxicological information is available for the mixture itself

## **SECTION 12: ECOLOGICAL INFORMATION**

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

## 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:



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#### 12.2 Persistence and degradability

**Biodegradation:** 

Abiotic Degradation:

Assessment / Classification:

#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

12.4 Mobility in soil

## 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects:

Additional ecotoxicological information:

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Waste treatment options:Dispose of waste according to applicable legislation.;

### **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	
Packing group	

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Land transport (ADR/RID)

Classification code ADR:

Limited quantities for ADR/RID:

Packing Instructions for ADR/RID:

Special Provisions for ADR/RID:

Excepted Quantities for ADR/RID:

Special packing provisions for ADR/RID:

Mixed packing provisions:

Portable tanks and bulk containers Instructions: Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages: Special provisions for carriage Bulk:



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Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG: Packing provisions for IMDG: Limited quantities for IMDG:

Packing instructions for IMDG: IBC Instructions:

IBC Provisions: IMO tank instructions:

UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:

Provisions concerning loading and unloading: Provisions concerning carriage:

Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions: Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:

Passenger and Cargo Aircraft Packaging Instructions : Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions : Cargo Aircraft only Maximal Net Quantity :

ERG code: Special Provisions for IATA:

#### SECTION 15: REGULATORY INFORMATION

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

## **EU** regulations

Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC:

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

National regulations



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#### 15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

#### **SECTION 16: OTHER INFORMATION**

## 16.1 Indication of changes

Date of the previous version:06/09/2023 Modifications:

# 16.2 Other informations

# 16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

# 16.4 Relevant R-, H- and EUH-phrases (number and full text):

Code	Hazard statments
H302	Harmful if swallowed
H312	Harmful in contact with skin
	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled





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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1 Product identifier:

Designation / Commercial name: HTRF Diluent 8 - 10 mL

CAS No.: Index No: EC No: REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only; Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.;

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

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA - Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone: +33 4 66 79 67 05 - Fax: +33 4 66 79 67 50 E-Mail (competent person): codolet.sds@revvity.com

#### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS): + 33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

https://www.cisbio.com https://www.revvity.com

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

## **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008	None	None	None

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

#### Product identifier:

Designation / Commercial name: HTRF Diluent 8 - 10 mL

Substances contained in this product:



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**Hazard pictograms** 

Signal word:

**Hazard and precautionary statements:** 

#### 2.3 Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC) published by the European CHemicals Agency (ECHA) under article 57 of REACH at levels of 0.1% or higher. This substance or mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher;

Adverse human health effects and symptoms:



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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

#### Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (%)	SCL	M-factor
4-(2- hydroxyethyl)piperazin-1- ylethanesulphonic acid	7365-45-9		230-907-9		< 3%		
Poly(oxy-1,2-ethanediyl), $\alpha$ -[4-(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy-	9002-93-1			Acute toxicity - Acute Tox. 4 - H302 - Oral Hazardous to the aquatic environment - Aquatic Acute 1 - H400 Hazardous to the aquatic environment - Aquatic Chronic 1 - H410 Serious eye damage/eye irritation - Eye Dam. 1 - H318 Skin corrosion/irritation - Skin Irrit. 2 - H315	< 1%		

## **Additional information:**

Full text of H- and EUH-phrases: see SECTION 16.

# **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

Following inhalation: In case of respiratory tract irritation, consult a physician.;

Following skin contact: After contact with skin, wash immediately with water;

**Following eye contact**: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.;

Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

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

Symptoms:No known symptoms to date.;

Effects:

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

Notes for the doctor:

# **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;



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

Hazardous combustion products:/

## 5.3 Advice for fire-fighters

Wear Protective clothing.;

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.;

## 6.3 Methods and material for containment and cleaning up

For cleaning up: Suitable material for taking up: Absorbing material, organic; Other information:

## 6.4 Reference to other sections

Additional information:

### **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

**Protective measures:** 

Advice on safe handling: Avoid contact with skin, eyes and clothes.;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled.;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice;

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

Technical measures and storage conditions:

Requirements for storage rooms and vessels: Keep container tightly closed.;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

#### 7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.;

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Preliminary remark:



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# 8.1.1 <u>Occupational exposure limits:</u>

• France

Source :	Informations rela	nformations relatives à la réglementation VME (France) : ED 984, 07.2012											
Substance	EC-No.	C-No. CAS-No VLE (mg/m3) VLE (ppm) VME (mg/m3) VME (pp											
7365-45-9 / 230- 907-9	230-907-9	7365-45-9											

Spain

Source :		•	ara Agentes Quimicos en igiene en el Trabajo	Espana		
Substance	EC-No.	CAS-No	VLA-EC (mg/m3)	VLA-EC (ppm)	VLA-ED (mg/m3)	VLA-ED (ppm)
7365-45-9 / 230- 907-9	230-907-9	7365-45-9				

Germany

Source :	TRGS 900, June 2015, BA	RGS 900, June 2015, BAuA										
Substance	EC-No.	CAS-No	AGW (mg/m3)	AGW (ppm)								
7365-45-9 / 230-907-9	230-907-9	7365-45-9										

- Italia
- Greece
- UK
- OSHA (USA)

Source : Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000	
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Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8- hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)
7365-45-9 / 230-907- 9	230-907-9	7365-45-9				

# 8.1.2 <u>Biological limit values (Germany):</u>

Source :	List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs), June 2014											
Substance	EC-No.	CAS-No	BLV (ppm)									
7365-45-9 / 230-907-9	230-907-9	7365-45-9										

# 8.1.3 Exposure limits at intended use (Germany):

Source :	TRGS 903, November 2015, BAuA										
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)							
7365-45-9 / 230-907-9	230-907-9	7365-45-9									

# 8.1.4 <u>DNEL/PNEC-values:</u>

DNEL worker

Source :	GESTIS – su	bstance dat	abase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects
7365-45-9 / 230-907-9	230-907-9	7365-45-9					23.5-23.5		

## • DNEL consumer

Source :	GESTIS – sı	IS – substance database											
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	dermal, local	systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects				
7365-45-9 / 230-907-9	230-907-9	7365-45-9											

# DNEL remark:

PNEC

Source :	INERIS			
Substance	EC-No.	CAS-No	PNEC AQUATIC	PNEC Sediment



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_																\ 	/
			freshwater			m	marine water			intermittent release			reshwate	er	marine water		er
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907- 9	230-907-9	7365-45-9															

Source :	INERIS	ERIS													
	EC-No.			Others											
Substance		CAS-No	PNEC soil			PNEC sewage treatment plant			PNEC air			PNEC secondary poisoning			
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	
7365-45-9 / 230-907-9	230-907-9	7365-45-9													

PNEC remark:

Control parameters remark:

## 8.2 Exposure controls

- 8.2.1 <u>Appropriate engineering controls:</u>
- 8.2.2 <u>Personal protective equipment:</u>

**Eye / Face protection**: Safety glasses with side-shields;

**Skin protection**:Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

8.2.3 <u>Environmental exposure controls:</u>

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state	Liquid;				
Colour	Colorless;				
Odour					
Odour threshold (ppm)					

		Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
рН		7					
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling range (°C)							
Flash point (°C)							
Evaporation rate (kg/m²/h)							
Flammability (type : ) (%)							
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
	Lower explosive limit (%)						



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					•
Vapour pressure (k	(Pa)				
Vapour density (g/	cm³)				
	Density (g/cm³)				
Densities	Relative density (g/cm³)				
	Bulk density (g/cm³)				
	Critical density (g/cm³)				
Solubility (Type: )	(g/L)				
Partition coefficien n-octanol/water at					
Auto-ignition temp	perature (°C)				
Decomposition ter Decomposition end					
Viscosity Viscosity, dynamic (poiseuille)					
Viscosity, cinematic (cm³/s)					
Oxidising propertie	es				
Explosive propertie	es				_

## 9.2 Other information:

No other relevant data available

#### **SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity This material is considered to be non-reactive under normal use conditions.;
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

### 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

### **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

## 11.1 Information on toxicological effects

# <u>Substances</u>

Acute toxicity

### Animal data:

Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
9002-93-1	1800-1800	Rat			



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Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence: Assessment / Classification:

General Remark:

• Skin corrosion/irritation

### Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
9002-93-1						

In-vitro skin test method: In-vitro skin test result: Assessment / Classification:

# • Eye damage/irritation

## Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
9002-93-1	Rabbit			Eye irritation	_	

In vitro eye test method: In vitro eye test result:

Assessment / Classification:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:



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Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- Specific target organ toxicity (single exposure)
  - o STOT SE 1 and 2

Animal data:

Other information:

o STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

## 11.1.1 Mixtures

No toxicological information is available for the mixture itself

#### **SECTION 12: ECOLOGICAL INFORMATION**

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

# 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Source :	Informatio	nformations relatives à la réglementation VME (France) : ED 984, 07.2012										
Substance	EC-No.	CAS-No	LC50 (mg/L)	EC50 (mg/L)	Test duration	Species	Result/ Evaluation	Method	Remark	General Remark		



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						$\sim$
9002-93-1	9002-93-1	8,9	96	Pimephales promelas (fathead minnow)		

## Chronic (long-term) fish toxicity

Source :	Informations r	elatives à la rég	glementation V	'ME (France) : ED	984, 07.2012					
Substance	EC-No.	EC-No. CAS-No NOEC (mg/L) Test duration Species Method Remark General Remark								
9002-93-1		9002-93-1								

## Acute (short-term) toxicity to crustacea

Source :	Information	s relatives à la	a réglementa	ation VME (Fran	ce) : ED 984, 0	7.2012				
Substance	EC-No.	C-No. CAS-No EC50 (mg/L) Test duration Species Result/ Evaluation Method Remark General Remark								
9002-93-1		9002-93-1	26	48						

## Chronic (long-term) toxicity to crustacea

Source :	Informations r	elatives à la ré	glementation V	'ME (France) : El	984, 07.2012						
Substance	EC-No.	EC-No. CAS-No NOEC (mg/L) Test duration Species Method Remark General Remark									
9002-93-1		9002-93-1									

# Acute (short-term) toxicity to algae and cyanobacteria

Source :	Informations	s relatives à l	a réglementat	tion VME (Fran	ce) : ED 984, 07	.2012				
Substance	EC-No.	C-No. CAS-No EC50 (mg/L) Test duration Species Result/ Evaluation Method Remark General Remark								
9002-93-1		9002-93-1								

# Toxicity to microorganisms and other aquatic plants / organisms

Source :	Informations rela	atives à la réglem	entation VME (Fr	ance) : ED 984, 07.	2012					
Substance	EC-No.	EC-No. CAS-No EC50 (mg/L) Species Method Remark General Remark								
9002-93-1		9002-93-1								

Assessment / Classification:

## 12.2 Persistence and degradability

# **Biodegradation:**

Source :	Informations r	formations relatives à la réglementation VME (France) : ED 984, 07.2012									
Substance	EC-No.	C-No. CAS-No Inoculum Biodegradation parameter Parameter Method Remark									
9002-93-1		9002-93-1		BOD (% of COD).	36-36		In accordance with the required stability the product is poorly biodegradable.				



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## Abiotic Degradation:

Source :								
Substance	EC-No.	CAS-No	Abiotic degradation test type	Half-life time (j)	Temperature (°C)	рН	Method	Remark
9002-93-1		9002-93-1						

Assessment / Classification:

## 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Source :						
Substance	EC-No.	CAS-No	Species	Result	Method	Remark
9002-93-1		9002-93-1				

## 12.4 Mobility in soil

Source :											
Substance	EC n°	CAS n°	Distribution	tvne	Henry's law constant (Pa.m3/mol)	Log KOC	Half-life time in soil (j)	Half-life time in fresh water (j)	Half-life time in sea water (j)	Method	Remark
9002-93-1		9002- 93-1									

### 12.5 Results of PBT and vPvB assessment

### 12.6 Other adverse effects:

Additional ecotoxicological information:

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.;

### **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	



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Packing group

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Excepted Quantities for ADR/RID: Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:

Mixed packing provisions:

Portable tanks and bulk containers Instructions: Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages: Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG: Packing provisions for IMDG: Limited quantities for IMDG:

Packing instructions for IMDG: IBC Instructions:

IBC Provisions: IMO tank instructions:

UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:

Provisions concerning loading and unloading: Provisions concerning carriage:

Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions: Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:

Passenger and Cargo Aircraft Packaging Instructions : Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions: Cargo Aircraft only Maximal Net Quantity:

ERG code: Special Provisions for IATA:

# SECTION 15: REGULATORY INFORMATION

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

## **EU** regulations

Authorisations and/or restrictions on use:

Authorisations: 9002-93-1



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Restrictions on use: SVHC:9002-93-1

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

**National regulations** 

### 15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

### **SECTION 16: OTHER INFORMATION**

### 16.1 Indication of changes

Date of the previous version:06/09/2023 Modifications:

## 16.2 Other informations

## 16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

## 16.4 Relevant R-, H- and EUH-phrases (number and full text):

Code	Hazard statments
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects





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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

Designation / Commercial name: HTRF a-Tubulin House. kit - 500 pts d2 antibody

CAS No.: Index No: EC No: REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only; Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.;

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

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA - Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone: +33 4 66 79 67 05 - Fax: +33 4 66 79 67 50 E-Mail (competent person): codolet.sds@revvity.com

#### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS): +33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

https://www.cisbio.com https://www.revvity.com

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008	None	None	None

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

#### Product identifier:

Designation / Commercial name : HTRF a-Tubulin House. kit - 500 pts d2 antibody

Substances contained in this product:



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**Hazard pictograms** 

Signal word:

**Hazard and precautionary statements:** 

## 2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.; Adverse human health effects and symptoms:



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (%)	SCL	M-factor
4-(2- hydroxyethyl)piperazin- 1-ylethanesulphonic acid	7365-45-9		230-907-9		< 3%		

#### Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

#### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

General information:Do not leave affected person unattended.;

Following inhalation: In case of respiratory tract irritation, consult a physician.;

**Following skin contact**: After contact with skin, wash immediately with water;

**Following eye contact**: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.;

Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

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

Symptoms:No known symptoms to date.;

Effects:

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

Notes for the doctor:

## **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:/

## 5.3 Advice for fire-fighters

Wear Protective clothing.;



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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.;

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

For cleaning up: Suitable material for taking up: Absorbing material, organic; Other information:

#### 6.4 Reference to other sections

Additional information:

#### **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

Protective measures:

 $\label{prop:advice} \mbox{Advice on safe handling:} \mbox{Avoid contact with skin, eyes and clothes.} \; ;$ 

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled.;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice;

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

<u>Technical measures and storage conditions:</u>

Requirements for storage rooms and vessels: Keep container tightly closed.;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

### 7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.;

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Preliminary remark:

### 8.1.1 Occupational exposure limits:

France

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012



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						V
Substance	EC-No.	CAS-No	VLE (mg/m3)	VLE (ppm)	VME (mg/m3)	VME (ppm)
7365-45-9 / 230- 907-9	230-907-9	7365-45-9				

### • Spain

Source :	Limites de Exposicion Profesional para Agentes Quimicos en Espana Instituto Nacional de Seguridad e Higiene en el Trabajo June 2015						
Substance	EC-No.	CAS-No	VLA-EC (mg/m3)	VLA-EC (ppm)	VLA-ED (mg/m3)	VLA-ED (ppm)	
7365-45-9 / 230- 907-9	230-907-9	7365-45-9					

### Germany

Source :	RGS 900, June 2015, BAuA						
Substance	EC-No.	CAS-No	AGW (mg/m3)	AGW (ppm)			
7365-45-9 / 230-907-9	230-907-9	7365-45-9					

- Italia
- Greece
- UK
- OSHA (USA)

Source :	Occupational Safe	ccupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000						
Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8- hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)		
7365-45-9 / 230-907- 9	230-907-9	7365-45-9						

# 8.1.2 <u>Biological limit values (Germany):</u>



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Source : List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs), June 2014						
Substance	EC-No.	CAS-No	BLV (mg/m3)	BLV (ppm)		
7365-45-9 / 230-907-9	230-907-9	7365-45-9				

# 8.1.3 Exposure limits at intended use (Germany):

Source :	TRGS 903, November 201	GS 903, November 2015, BAuA								
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)						
7365-45-9 / 230-907-9	230-907-9	7365-45-9								

## 8.1.4 <u>DNEL/PNEC-values:</u>

DNEL worker

Source :	GESTIS – su	bstance dat	abase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	Isystemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects
7365-45-9 / 230-907-9	230-907-9	7365-45-9					23.5-23.5		

DNEL consumer

Source :	GESTIS – si	ubstance da	tabase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects
7365-45-9 / 230-907-9	230-907-9	7365-45-9							

## DNEL remark:

PNEC

Source :	INERIS																
			PNEC AQUATIC							PNEC Sediment							
Substance	EC No	EC-No. CAS-No		freshwater		marine water		intermittent release		freshwater		marine water		.er			
Substance EC-No.	EC-NO.		(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907- 9	230-907-9	7365-45-9															

Source : INERIS
-----------------



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				Others										
Substance	EC-No.	CAS-No PNEC soil		PNEC sewage treatment plant		PNEC air			PNEC secondary poisoning					
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9												

PNEC remark:

Control parameters remark:

### 8.2 Exposure controls

8.2.1 <u>Appropriate engineering controls:</u>

#### 8.2.2 <u>Personal protective equipment:</u>

**Eye / Face protection**: Safety glasses with side-shields;

**Skin protection**:Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

8.2.3 <u>Environmental exposure controls:</u>

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state	Liquid;
Colour	Blue;
Odour	
Odour threshold (ppm)	

		Value	Concentration	Method	Temperature (°C)	Pressure (kPa)	Remark
			(mol/L)				
рН		7					
Melting point (°C)							
Freezing point (°C)	Freezing point (°C)						
Initial boiling point/boiling range (°C)							
Flash point (°C)							
Evaporation rate (kg/m²/h)							
Flammability (type : ) (%)							
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
lillits	Lower explosive limit (%)						
Vapour pressure (kPa)							
Vapour density (g/cm³)							
	Density (g/cm³)						
Densities	Relative density (g/cm³)						
	Bulk density (g/cm³)						
	Critical density (g/cm³)						
Solubility (Type: ) (g/L)							
Partition coefficient (log Pon- n-octanol/water at pH:	w)						
Auto-ignition temperature	(°C)						



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				V
Decomposition t Decomposition e				
Viscosity	Viscosity, dynamic (poiseuille)			
	Viscosity, cinematic (cm <sup>3</sup> /s)			
Oxidising properties				
Explosive properties				

## 9.2 Other information:

No other relevant data available

#### **SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity This material is considered to be non-reactive under normal use conditions.;
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- **10.5** Incompatible materials:

# 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

## SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

## 11.1 Information on toxicological effects

### **Substances**

Acute toxicity

#### Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence: Assessment / Classification:

General Remark:

• Skin corrosion/irritation

Animal data:



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In-vitro skin test method: In-vitro skin test result: Assessment / Classification:

Eye damage/irritation

Λ	imal	_		
Δn	ıma		ыта	

In vitro eye test method: In vitro eye test result: Assessment / Classification:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- Specific target organ toxicity (single exposure)
  - o STOT SE 1 and 2

Animal data:

Other information:

STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

• Specific target organ toxicity (repeated exposure)



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Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

#### • Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

#### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

#### **SECTION 12: ECOLOGICAL INFORMATION**

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

### 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

# 12.2 Persistence and degradability

**Biodegradation:** 

Abiotic Degradation:

Assessment / Classification:

#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):



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#### 12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects:

Additional ecotoxicological information:

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.;

### **SECTION 14: TRANSPORT INFORMATION**

### ADR/RID/AND/IMDG/IATA

UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	
Packing group	

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

# Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Excepted Quantities for ADR/RID: Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:

Mixed packing provisions:

Portable tanks and bulk containers Instructions: Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages: Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG: Packing provisions for IMDG: Limited quantities for IMDG:

Packing instructions for IMDG: IBC Instructions:

IBC Provisions: IMO tank instructions:

UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:



Designation / Commercial name: HTRF a-Tubulin House. kit - 500 pts d2 antibody

Version: UK, Page 12 of 13, Revision date: 07/09/2023

**Inland waterway transport (ADN)** 

Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:

Provisions concerning loading and unloading: Provisions concerning carriage:

Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions: Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:

Passenger and Cargo Aircraft Packaging Instructions: Passenger and Cargo Aircraft Maximal Net Quantity:

Cargo Aircraft only Packaging Instructions : Cargo Aircraft only Maximal Net Quantity :

ERG code: Special Provisions for IATA:

#### SECTION 15: REGULATORY INFORMATION

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

### **EU regulations**

• Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC:

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

## National regulations

# 15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

## **SECTION 16: OTHER INFORMATION**

## 16.1 Indication of changes

Date of the previous version:06/09/2023 Modifications:

#### 16.2 Other informations



Designation / Commercial name : HTRF a-Tubulin House. kit - 500 pts d2 antibody

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16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

16.4 Relevant R-, H- and EUH-phrases (number and full text):





Designation / Commercial name: HTRF a-Tubulin House. kit - 500 pts Eu Cryptate antibody

Version: UK, Page 1 of 13, Revision date: 07/09/2023

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

Designation / Commercial name: HTRF a-Tubulin House. kit - 500 pts Eu Cryptate antibody

CAS No.: Index No: EC No: REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only; Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.;

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

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA - Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone: +33 4 66 79 67 05 - Fax: +33 4 66 79 67 50 E-Mail (competent person): codolet.sds@revvity.com

#### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS): +33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

https://www.cisbio.com https://www.revvity.com

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008	None	None	None

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

#### Product identifier:

Designation / Commercial name: HTRF a-Tubulin House. kit - 500 pts Eu Cryptate antibody

Substances contained in this product:



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**Hazard pictograms** 

Signal word:

**Hazard and precautionary statements:** 

### 2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.; Adverse human health effects and symptoms:



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (%)	SCL	M-factor
4-(2- hydroxyethyl)piperazin- 1-ylethanesulphonic acid	7365-45-9		230-907-9		< 3%		

#### Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

#### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

General information:Do not leave affected person unattended.;

Following inhalation: In case of respiratory tract irritation, consult a physician.;

**Following skin contact**: After contact with skin, wash immediately with water;

**Following eye contact**: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.;

Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

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

Symptoms:No known symptoms to date.;

Effects:

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

Notes for the doctor:

## **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:/

## 5.3 Advice for fire-fighters

Wear Protective clothing.;



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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.;

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

For cleaning up: Suitable material for taking up: Absorbing material, organic; Other information:

#### 6.4 Reference to other sections

Additional information:

#### **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

Protective measures:

 $\label{prop:advice} \mbox{Advice on safe handling:} \mbox{Avoid contact with skin, eyes and clothes.} \; ;$ 

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled.;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice;

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

<u>Technical measures and storage conditions:</u>

Requirements for storage rooms and vessels: Keep container tightly closed.;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

### 7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.;

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Preliminary remark:

### 8.1.1 Occupational exposure limits:

France

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012



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						V
Substance	EC-No.	CAS-No	VLE (mg/m3)	VLE (ppm)	VME (mg/m3)	VME (ppm)
7365-45-9 / 230- 907-9	230-907-9	7365-45-9				

### Spain

Source :	•	•	ara Agentes Quimicos en igiene en el Trabajo	Espana		
Substance	EC-No.	CAS-No	VLA-EC (mg/m3)	VLA-EC (ppm)	VLA-ED (mg/m3)	VLA-ED (ppm)
7365-45-9 / 230- 907-9	230-907-9	7365-45-9				

### Germany

Source :	TRGS 900, June 2015, BA	AL		
Substance	EC-No.	CAS-No	AGW (mg/m3)	AGW (ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9		

- Italia
- Greece
- UK
- OSHA (USA)

Source :	Occupational Safe	ty and Health Admin	istration (OSHA) Permis	sible Exposure Limits (PEL	S) from 29 CFR 1910.10	00
Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8- hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)
7365-45-9 / 230-907- 9	230-907-9	7365-45-9				

# 8.1.2 <u>Biological limit values (Germany):</u>



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Source :	List of recommended heal	th-based biological limit val	ues (BLVs) and biological guidance val	lues (BGVs), June 2014
Substance	EC-No.	CAS-No	BLV (mg/m3)	BLV (ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9		

# 8.1.3 Exposure limits at intended use (Germany):

Source :	TRGS 903, November 201	.5, BAuA		
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9		

## 8.1.4 <u>DNEL/PNEC-values:</u>

DNEL worker

Source :	GESTIS – su	bstance dat	abase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	Isystemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects
7365-45-9 / 230-907-9	230-907-9	7365-45-9					23.5-23.5		

DNEL consumer

Source :	GESTIS – si	ubstance da	tabase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects
7365-45-9 / 230-907-9	230-907-9	7365-45-9							

## DNEL remark:

PNEC

Source :	INERIS																
			PNEC AQUATIC									PNEC Sediment					
Substance	stance EC-No. CAS-No		freshwate	r	marine water			intermittent release			freshwater			marine water		.er	
Substance EC-No.		(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	
7365-45-9 / 230-907- 9	230-907-9	7365-45-9															

Source : INERIS
-----------------



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Substance EG			Others												
	EC-No.	CAS-No	PNEC soil			PNEC sewage treatment plant			PNEC air			PNEC secondary poisoning			
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	
7365-45-9 / 230-907-9	230-907-9	7365-45-9													

PNEC remark:

Control parameters remark:

### 8.2 Exposure controls

8.2.1 <u>Appropriate engineering controls:</u>

#### 8.2.2 <u>Personal protective equipment:</u>

**Eye / Face protection**: Safety glasses with side-shields;

**Skin protection**:Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

8.2.3 <u>Environmental exposure controls:</u>

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state	Liquid;
Colour	Colorless;
Odour	
Odour threshold (ppm)	

		Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
рН		7					
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling	range (°C)						
Flash point (°C)							
Evaporation rate (kg/m²/h)	ı						
Flammability (type : ) (%)							
Upper/lower flammability or explosive	Upper explosive limit (%)						
limits	Lower explosive limit (%)						
Vapour pressure (kPa)							
Vapour density (g/cm³)							
	Density (g/cm³)						
Densities	Relative density (g/cm³)						
	Bulk density (g/cm³)						
	Critical density (g/cm³)						
Solubility (Type: ) (g/L)							
Partition coefficient (log Pow) n-octanol/water at pH :							
Auto-ignition temperature (°C)							



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				v
Decomposition temperature (°C) Decomposition energy: kJ				
Viscosity	Viscosity, dynamic (poiseuille)			
	Viscosity, cinematic (cm <sup>3</sup> /s)			
Oxidising properties				
Explosive properties				

### 9.2 Other information:

No other relevant data available

#### **SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity This material is considered to be non-reactive under normal use conditions.;
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- **10.5** Incompatible materials:
- 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

# SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

## 11.1 Information on toxicological effects

### **Substances**

Acute toxicity

Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence: Assessment / Classification:

General Remark:

• Skin corrosion/irritation

Animal data:



Designation / Commercial name : HTRF a-Tubulin House. kit - 500 pts Eu Cryptate antibody Version: UK, Page 9 of 13, Revision date: 07/09/2023

In-vitro skin test method: In-vitro skin test result: Assessment / Classification:

Eye damage/irritation

### Animal data:

In vitro eye test method: In vitro eye test result: Assessment / Classification:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- Specific target organ toxicity (single exposure)
  - o STOT SE 1 and 2

Animal data:

Other information:

STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

• Specific target organ toxicity (repeated exposure)



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Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

#### • Aspiration hazard

Practical experience / human evidence: Experimental data: viscosity data: see SECTION 9. Assessment / Classification:

Remark:

#### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

#### **SECTION 12: ECOLOGICAL INFORMATION**

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

### 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

# 12.2 Persistence and degradability

**Biodegradation:** 

Abiotic Degradation:

Assessment / Classification:

#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):



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#### 12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects:

Additional ecotoxicological information:

#### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.;

### **SECTION 14: TRANSPORT INFORMATION**

### ADR/RID/AND/IMDG/IATA

UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	
Packing group	

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

# Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Excepted Quantities for ADR/RID: Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:

Mixed packing provisions:

Portable tanks and bulk containers Instructions: Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages: Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG: Packing provisions for IMDG: Limited quantities for IMDG:

Packing instructions for IMDG: IBC Instructions:

IBC Provisions: IMO tank instructions:

UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:



Designation / Commercial name: HTRF a-Tubulin House. kit - 500 pts Eu Cryptate antibody

Version: UK, Page 12 of 13, Revision date: 07/09/2023

**Inland waterway transport (ADN)** 

Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:

Provisions concerning loading and unloading: Provisions concerning carriage:

Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions: Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:

Passenger and Cargo Aircraft Packaging Instructions: Passenger and Cargo Aircraft Maximal Net Quantity:

Cargo Aircraft only Packaging Instructions : Cargo Aircraft only Maximal Net Quantity :

ERG code: Special Provisions for IATA:

#### SECTION 15: REGULATORY INFORMATION

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

### **EU regulations**

• Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC:

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

## National regulations

### 15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

## **SECTION 16: OTHER INFORMATION**

## 16.1 Indication of changes

Date of the previous version:07/09/2023 Modifications:

#### 16.2 Other informations



Designation / Commercial name : HTRF a-Tubulin House. kit - 500 pts Eu Cryptate antibody Version: UK, Page 13 of 13, Revision date: 07/09/2023

**16.3** Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]: See SECTION 2.1 (classification).

16.4 Relevant R-, H- and EUH-phrases (number and full text):





Designation / Commercial name: HTRF P-T prot. - Lysis Buf.4 (4X) 2 mL

Version: UK, Page 1 of 14, Revision date: 07/09/2023

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

Designation / Commercial name : HTRF P-T prot. - Lysis Buf.4 (4X) 2 mL

CAS No.: Index No: EC No: REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only; Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.;

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

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA - Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone: +33 4 66 79 67 05 - Fax: +33 4 66 79 67 50 E-Mail (competent person): codolet.sds@revvity.com

#### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS): + 33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

https://www.cisbio.com https://www.revvity.com

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]	Category code	Hazard statement	Precautionary statement
Hazardous to the aquatic environment - Aquatic Chronic 3 - H412	Aquatic Chronic 3	IH412	P273 P501

## 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

#### <u> Product identifier:</u>

Designation / Commercial name : HTRF P-T prot. - Lysis Buf.4 (4X) 2 mL

Substances contained in this product:



Designation / Commercial name: HTRF P-T prot. - Lysis Buf.4 (4X) 2 mL

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**Hazard pictograms** 

### Signal word:

#### **Hazard and precautionary statements:**

Code	Hazard statments				
H412	Harmful to aquatic life with long lasting effects				
P273	Avoid release to the environment.				
P501	Dispose of contents/container to				

### 2.3 Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC) published by the European CHemicals Agency (ECHA) under article 57 of REACH at levels of 0.1% or higher. This substance or mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher;

Adverse human health effects and symptoms:



Designation / Commercial name: HTRF P-T prot. - Lysis Buf.4 (4X) 2 mL

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

#### Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (%)	SCL	M-factor
4-(2- hydroxyethyl)piperazin-1- ylethanesulphonic acid	7365-45-9		230-907-9		< 10%		
Poly(oxy-1,2-ethanediyl), $\alpha$ -[4-(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy-	9002-93-1			Acute toxicity - Acute Tox. 4 - H302 - Oral Hazardous to the aquatic environment - Aquatic Acute 1 - H400 Hazardous to the aquatic environment - Aquatic Chronic 1 - H410 Serious eye damage/eye irritation - Eye Dam. 1 - H318 Skin corrosion/irritation - Skin Irrit. 2 - H315	< 1%		

## **Additional information:**

Full text of H- and EUH-phrases: see SECTION 16.

## **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

Following inhalation: In case of respiratory tract irritation, consult a physician.;

Following skin contact: After contact with skin, wash immediately with water;

**Following eye contact**: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.;

Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

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

 $\label{eq:continuous} \mbox{Symptoms:No known symptoms to date.} \ ;$ 

Effects:

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

Notes for the doctor:

## **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;



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

Hazardous combustion products:/

### 5.3 Advice for fire-fighters

Wear Protective clothing.;

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.;

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

For cleaning up: Suitable material for taking up: Absorbing material, organic; Other information:

### 6.4 Reference to other sections

Additional information:

#### **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

**Protective measures:** 

Advice on safe handling: Avoid contact with skin, eyes and clothes.;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled.;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice;

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

Technical measures and storage conditions:

Requirements for storage rooms and vessels: Keep container tightly closed.;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

#### 7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.;

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

Preliminary remark:



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# 8.1.1 <u>Occupational exposure limits:</u>

• France

Source :	Informations rela	oformations relatives à la réglementation VME (France) : ED 984, 07.2012											
Substance	EC-No.	EC-No.         CAS-No         VLE (mg/m3)         VLE (ppm)         VME (mg/m3)         VME (ppm)											
7365-45-9 / 230- 907-9	230-907-9	7365-45-9											

• Spain

Source :	•	mites de Exposicion Profesional para Agentes Quimicos en Espana stituto Nacional de Seguridad e Higiene en el Trabajo ne 2015										
Substance	EC-No.	CAS-No	VLA-EC (mg/m3)	VLA-EC (ppm)	VLA-ED (mg/m3)	VLA-ED (ppm)						
7365-45-9 / 230- 907-9	230-907-9	7365-45-9										

Germany

Source :	TRGS 900, June 2015, BA	RGS 900, June 2015, BAuA										
Substance	EC-No.	CAS-No	AGW (mg/m3)	AGW (ppm)								
7365-45-9 / 230-907-9	230-907-9	7365-45-9										

- Italia
- Greece
- UK
- OSHA (USA)

Source : Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000	
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	Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8- hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)
9	7365-45-9 / 230-907- )	230-907-9	7365-45-9				

# 8.1.2 <u>Biological limit values (Germany):</u>

Source :	Source : List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs), June 2014										
Substance	EC-No.	CAS-No	BLV (mg/m3)	BLV (ppm)							
7365-45-9 / 230-907-9	230-907-9	7365-45-9									

# 8.1.3 Exposure limits at intended use (Germany):

Source :	TRGS 903, November 201	RGS 903, November 2015, BAuA											
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)									
7365-45-9 / 230-907-9	230-907-9	7365-45-9											

# 8.1.4 <u>DNEL/PNEC-values:</u>

DNEL worker

Source :	GESTIS – su	bstance dat	abase						
Substance	EC-No.	CAS-No	Acute – dermal, long-term dermal, local effects (mg/kg/day) effects (mg/kg/da		systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, systemic effects (mg/m3)	
7365-45-9 / 230-907-9	230-907-9	7365-45-9					23.5-23.5		

### • DNEL consumer

Source :	GESTIS – sı	ubstance da	tabase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	dermal, local	systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects
7365-45-9 / 230-907-9	230-907-9	7365-45-9							

# DNEL remark:

PNEC

Source :	INERIS			
Substance	EC-No.	CAS-No	PNEC AQUATIC	PNEC Sediment



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_																\ 	/	
			freshwater			m	marine water			intermittent release			freshwater			marine water		
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	
7365-45-9 / 230-907- 9	230-907-9	7365-45-9																

Source :	INERIS													
	EC-No.			Others										
Substance		CAS-No	PNEC soil			PNEC sewage treatment plant			PNEC air			PNEC secondary poisoning		
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9												

PNEC remark:

Control parameters remark:

### 8.2 Exposure controls

8.2.1 Appropriate engineering controls:

8.2.2 <u>Personal protective equipment:</u>

**Eye / Face protection**: Safety glasses with side-shields;

**Skin protection**:Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

8.2.3 <u>Environmental exposure controls:</u>

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state	Liquid;
Colour	Colorless;
Odour	
Odour threshold (ppm)	

		Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
oH		7					
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling r	range (°C)						
Flash point (°C)							
Evaporation rate (kg/m²/h)							
Flammability (type : ) (%)	Flammability (type : ) (%)						
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
IIIIILS	Lower explosive limit (%)						



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					V
Vapour pressure (I	«Pa)				
Vapour density (g/	′cm³)				
	Density (g/cm³)				
Densities	Relative density (g/cm³)				
	Bulk density (g/cm³)				
	Critical density (g/cm³)				
Solubility (Type :	) (g/L)				
Partition coefficier n-octanol/water a					
Auto-ignition temp	perature (°C)				
Decomposition ter Decomposition en					
Viscosity Viscosity, dynamic (poiseuille)					
	Viscosity, cinematic (cm³/s)				
Oxidising propertie	Oxidising properties				
Explosive propertion	es				

# 9.2 Other information:

No other relevant data available

#### **SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity This material is considered to be non-reactive under normal use conditions.;
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

### 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

# SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

# 11.1 Information on toxicological effects

# <u>Substances</u>

Acute toxicity

#### Animal data:

Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
9002-93-1	1800-1800	Rat			



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Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

## • Skin corrosion/irritation

### Animal data:

	Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
90	02-93-1						

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

# • Eye damage/irritation

### Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
9002-93-1	Rabbit			Eye irritation		

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:



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Other information:

Assessment / Classification:

Overall assessment on CMR properties:

# • Specific target organ toxicity (single exposure)

o STOT SE 1 and 2

Animal data:

Other information:

o STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

• Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

#### Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

#### SECTION 12: ECOLOGICAL INFORMATION

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

# 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Source :	Informatio	nformations relatives à la réglementation VME (France) : ED 984, 07.2012											
Substance	EC-No.	CAS-No	LC50 (mg/L)	EC50 (mg/L)	Test duration	Species	Result/ Evaluation	Method	Remark	General Remark			



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			_				$\sim$
9002-93-1	9002-93-1	8,9		96	Pimephales promelas (fathead minnow)		

### Chronic (long-term) fish toxicity

Source :	Informations relatives à la réglementation VME (France) : ED 984, 07.2012										
Substance	EC-No.	EC-No. CAS-No NOEC (mg/L) Test duration Species Method Remark General Remark									
9002-93-1		9002-93-1									

# Acute (short-term) toxicity to crustacea

Source :	ource : Informations relatives à la réglementation VME (France) : ED 984, 07.2012											
Substance	EC-No.	CC-No. CAS-No EC50 (mg/L) Test duration Species Result/ Evaluation Method Remark General Remark										
9002-93-1		9002-93-1 26 48										

# Chronic (long-term) toxicity to crustacea

Source :	Informations relatives à la réglementation VME (France) : ED 984, 07.2012											
Substance	EC-No.	EC-No. CAS-No NOEC (mg/L) Test duration Species Method Remark General Remark										
9002-93-1		9002-93-1										

# Acute (short-term) toxicity to algae and cyanobacteria

Source :	Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012											
Substance	EC-No.	C-No. CAS-No EC50 (mg/L) Test duration Species Result/ Evaluation Method Remark General Remark										
9002-93-1		9002-93-1										

# Toxicity to microorganisms and other aquatic plants / organisms

Source :	Informations relatives à la réglementation VME (France) : ED 984, 07.2012							
Substance	EC-No.	EC-No. CAS-No EC50 (mg/L) Species Method Remark General Remark						
9002-93-1		9002-93-1						

Assessment / Classification:

# 12.2 Persistence and degradability

# **Biodegradation:**

Source :	Informations relatives à la réglementation VME (France) : ED 984, 07.2012							
Substance	EC-No. CAS-No Inoculum Biodegradation parameter Parameter Method Remark							
9002-93-1		9002-93-1		BOD (% of COD).	36-36		In accordance with the required stability the product is poorly biodegradable.	



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### Abiotic Degradation:

Source :								
Substance	EC-No.	CAS-No	Abiotic degradation test type	Half-life time (j)	Temperature (°C)	рН	Method	Remark
9002-93-1		9002-93-1						

Assessment / Classification:

# 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Source :						
Substance	EC-No.	CAS-No	Species	Result	Method	Remark
9002-93-1		9002-93-1				

# 12.4 Mobility in soil

Source :											
Substance	EC n°	CAS n°	Distribution	tvne	Henry's law constant (Pa.m3/mol)	Log KOC	Half-life time in soil (j)	Half-life time in fresh water (j)	Half-life time in sea water (j)	Method	Remark
9002-93-1		9002- 93-1									

#### 12.5 Results of PBT and vPvB assessment

### 12.6 Other adverse effects:

Additional ecotoxicological information:

# **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.;

### **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	



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Packing group

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Excepted Quantities for ADR/RID: Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:

Mixed packing provisions:

Portable tanks and bulk containers Instructions: Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages: Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG: Packing provisions for IMDG: Limited quantities for IMDG:

Packing instructions for IMDG: IBC Instructions:

IBC Provisions: IMO tank instructions:

UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:

Provisions concerning loading and unloading: Provisions concerning carriage:

Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions: Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:

Passenger and Cargo Aircraft Packaging Instructions : Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions: Cargo Aircraft only Maximal Net Quantity:

ERG code: Special Provisions for IATA:

# SECTION 15: REGULATORY INFORMATION

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

### **EU regulations**

Authorisations and/or restrictions on use:

Authorisations: 9002-93-1



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Restrictions on use: SVHC:9002-93-1

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

**National regulations** 

### 15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

### **SECTION 16: OTHER INFORMATION**

### 16.1 Indication of changes

Date of the previous version:06/09/2023 Modifications:

# 16.2 Other informations

## 16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

### 16.4 Relevant R-, H- and EUH-phrases (number and full text):

Code	Hazard statments
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects





Designation / Commercial name: HTRF P-T prot. - Detect. Buf. 2 mL

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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

Designation / Commercial name : HTRF P-T prot. - Detect. Buf. 2 mL

CAS No.: Index No: EC No: REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only; Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.;

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

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA - Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone: +33 4 66 79 67 05 - Fax: +33 4 66 79 67 50 E-Mail (competent person): codolet.sds@revvity.com

#### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS): +33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

https://www.cisbio.com https://www.revvity.com

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

### **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008	None	None	None

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

#### Product identifier:

Designation / Commercial name : HTRF P-T prot. - Detect. Buf. 2 mL

Substances contained in this product:



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**Hazard pictograms** 

Signal word:

**Hazard and precautionary statements:** 

# 2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.; Adverse human health effects and symptoms:



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (%)	SCL	M-factor
potassium fluoride	7789-23-3	009-005-00-2	232-151-5	Acute toxicity - Acute Tox. 3 - H301 - Oral Acute toxicity - Acute Tox. 3 - H311 - Dermal Acute toxicity - Acute Tox. 3 - H331 - Inhalation	< 3%		
4-(2- hydroxyethyl)piperazin- 1-ylethanesulphonic acid	7365-45-9		230-907-9		< 3%		

#### Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

### **SECTION 4: FIRST AID MEASURES**

# 4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

Following inhalation: In case of respiratory tract irritation, consult a physician.;

Following skin contact: After contact with skin, wash immediately with water;

**Following eye contact**: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.;

Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

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

Symptoms:No known symptoms to date.;

Effects:

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

Notes for the doctor:

## **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;

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

Hazardous combustion products:/



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#### 5.3 Advice for fire-fighters

Wear Protective clothing.;

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.;

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

For cleaning up:Suitable material for taking up: Absorbing material, organic; Other information:

#### 6.4 Reference to other sections

Additional information:

### **SECTION 7: HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

**Protective measures:** 

 $\label{prop:prop:contact} \mbox{Advice on safe handling:} \mbox{Avoid contact with skin, eyes and clothes.} \; ;$ 

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled.;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice;

# 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Requirements for storage rooms and vessels: Keep container tightly closed.;

Hints on storage assembly:

Materials to avoid:

<u>Further information on storage conditions:</u>

### 7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.;

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Preliminary remark:

#### 8.1.1 Occupational exposure limits:

France



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Source :	nformations relatives à la réglementation VME (France) : ED 984, 07.2012						
Substance	EC-No.	EC-No.         CAS-No         VLE (mg/m3)         VLE (ppm)         VME (mg/m3)         VME (ppm)					
7365-45-9 / 230- 907-9	230-907-9	7365-45-9					
7789-23-3 / 232- 151-5	232-151-5	7789-23-3			2,5		

# Spain

		imites de Exposicion Profesional para Agentes Quimicos en Espana nstituto Nacional de Seguridad e Higiene en el Trabajo une 2015						
Substance	EC-No.	EC-No. CAS-No VLA-EC (mg/m3) VLA-EC (ppm) VLA-ED (mg/m3) VLA-ED (ppm)						
7365-45-9 / 230- 907-9	230-907-9	7365-45-9						
7789-23-3 / 232- 151-5	232-151-5	7789-23-3						

# Germany

Source :	RGS 900, June 2015, BAuA							
Substance	EC-No.	CAS-No	AGW (mg/m3)	AGW (ppm)				
7365-45-9 / 230-907-9	230-907-9	7365-45-9						
7789-23-3 / 232-151-5	232-151-5	7789-23-3						

- Italia
- Greece
- UK
- OSHA (USA)

Source : Occupational Sa	fety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000
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Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8- hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)
7365-45-9 / 230-907- 9		7365-45-9				
7789-23-3 / 232-151- 5	232-151-5	7789-23-3				

# 8.1.2 <u>Biological limit values (Germany):</u>

Source :	List of recommended hea	lth-based biological limit val	ues (BLVs) and biological guidance va	lues (BGVs), June 2014
Substance	EC-No.	CAS-No	BLV (mg/m3)	BLV (ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9		
7789-23-3 / 232-151-5	232-151-5	7789-23-3		

# 8.1.3 Exposure limits at intended use (Germany):

Source :	TRGS 903, November 2015, BAuA									
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)						
7365-45-9 / 230-907-9	230-907-9	7365-45-9								
7789-23-3 / 232-151-5	232-151-5	7789-23-3								

# 8.1.4 <u>DNEL/PNEC-values:</u>

DNEL worker

Source :	GESTIS – su	STIS – substance database										
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	Long-term – dermal, systemic effects (mg/kg/day)	Acute – inhalation, local effects (mg/m3)	cyctemic ettects	Long-term – inhalation, local effects (mg/m3)	systemic ettects			
7365-45-9 / 230-907-9	230-907-9	7365-45-9					23.5-23.5					
7789-23-3 / 232-151-5	232-151-5	7789-23-3				3-3	3-3					

## DNEL consumer

Source :	GESTIS – sı	ubstance da	tabase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	dermal, local	ermal, local dermal, ir systemic effects		Acute – Acute – inhalation, local effects (mg/m3) (mg/m3)		systemic effects
7365-45-9 / 230-907-9	230-907-9	7365-45-9							



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					~
7789-23-3 / 232-151-5	7789-23-3				

DNEL remark:

PNEC

Source :	INERIS	•	•						•				•			•	
	EC-No.			PNEC AQUATIC								PNEC Sediment					
Substance		EC-No. CAS-No		freshwater		marine water		intermittent release		freshwater		marine water					
Substance			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907- 9	230-907-9	7365-45-9															
7789-23-3 / 232-151- 5	232-151-5	7789-23-3															

Source :	INERIS													
	EC-No.			Others										
Substance		CAS-No	PNEC soil			PNEC sewage treatment plant			PNEC air			PNEC secondary poisoning		
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9												
7789-23-3 / 232-151-5	232-151-5	7789-23-3												

PNEC remark:

Control parameters remark:

### 8.2 Exposure controls

8.2.1 Appropriate engineering controls:

# 8.2.2 <u>Personal protective equipment:</u>

**Eye / Face protection**: Safety glasses with side-shields;

**Skin protection**:Gloves;

**Respiratory protection**: Ensure adequate ventilation;

Thermal hazards:

8.2.3 <u>Environmental exposure controls:</u>



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# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1 Information on basic physical and chemical properties

# <u>Appearance</u>

Physical state	Liquid;
Colour	Colorless;
Odour	
Odour threshold (ppm)	

		Value	Concentration	Method	Temperature (°C)	Pressure (kPa)	Remark
			(mol/L)				
рН		7					
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling	range (°C)						
Flash point (°C)							
Evaporation rate (kg/m²/h	)						
Flammability (type : ) (%)							
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
	Lower explosive limit (%)						
Vapour pressure (kPa)							
Vapour density (g/cm³)							
	Density (g/cm³)						
Densities	Relative density (g/cm³)						
	Bulk density (g/cm³)						
	Critical density (g/cm³)						
Solubility (Type: ) (g/L)							
Partition coefficient (log Pon-octanol/water at pH:	ow)						
Auto-ignition temperature	e (°C)						
Decomposition temperatu Decomposition energy: k							
Viscosity	Viscosity, dynamic (poiseuille)						
	Viscosity, cinematic (cm <sup>3</sup> /s)						
Oxidising properties							
Explosive properties							

### 9.2 Other information:

No other relevant data available



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# **SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity This material is considered to be non-reactive under normal use conditions.;
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

### 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

### **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

#### 11.1 Information on toxicological effects

#### <u>Substances</u>

### • Acute toxicity

### Animal data:

Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
7789-23-3 / 232-151-5	245-245	Rat			

### Acute dermal toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Remark
7789-23-3 / 232-151-5				

### Acute inhalative toxicity:

Substance name	C(E)L50 (mg/L)	Exposure time	Species	Method	Remark
7789-23-3 / 232-151-5					

Practical experience / human evidence:

Assessment / Classification:

General Remark:

# • Skin corrosion/irritation



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#### Animal data:

In-vitro skin test method: In-vitro skin test result: Assessment / Classification:

• Eye damage/irritation

### Animal data:

In vitro eye test method: In vitro eye test result: Assessment / Classification:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- Specific target organ toxicity (single exposure)
  - o STOT SE 1 and 2

Animal data:

Other information:

o STOT SE 3

Practical experience / human evidence:

Other information:



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Assessment / Classification:

#### Specific target organ toxicity (repeated exposure)

Practical experience / human evidence: Animal data:

Assessment / Classification:

Other information

#### Aspiration hazard

Practical experience / human evidence: Experimental data: viscosity data: see SECTION 9. Assessment / Classification:

Remark:

#### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

### **SECTION 12: ECOLOGICAL INFORMATION**

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

### 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

### 12.2 Persistence and degradability

**Biodegradation:** 

Abiotic Degradation:

Assessment / Classification:



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#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

### 12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

#### *12.6 Other adverse effects:*

Additional ecotoxicological information:

#### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste treatment options: Dispose of waste according to applicable legislation.;

#### **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

<u> </u>	
UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	
Packing group	

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

### Land transport (ADR/RID)

Classification code ADR:

Limited quantities for ADR/RID:

Packing Instructions for ADR/RID:

Special Provisions for ADR/RID:

Excepted Quantities for ADR/RID:

Special packing provisions for ADR/RID:

Mixed packing provisions:

Portable tanks and bulk containers Instructions: Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages: Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG: Packing provisions for IMDG: Limited quantities for IMDG:

Packing instructions for IMDG: IBC Instructions:



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IBC Provisions:IMO tank instructions:UN tank instructions:Tanks and bulk Provisions:EmS:Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:

Provisions concerning loading and unloading: Provisions concerning carriage:

Number of blue cones/lights: Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions: Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:

Passenger and Cargo Aircraft Packaging Instructions : Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions: Cargo Aircraft only Maximal Net Quantity:

ERG code: Special Provisions for IATA:

# **SECTION 15: REGULATORY INFORMATION**

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

### **EU regulations**

• Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use: 7789-23-3 / 232-151-5

SVHC:

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

### National regulations

#### 15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

### **SECTION 16: OTHER INFORMATION**

### 16.1 Indication of changes

Date of the previous version:06/09/2023 Modifications:



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### 16.2 Other informations

# 16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

# 16.4 Relevant R-, H- and EUH-phrases (number and full text):

Code	Hazard statments		
H301	Toxic if swallowed		
H311	Toxic in contact with skin		
H331	Toxic if inhaled		

