

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

Trade name: HTRF cRaf Total Kit - 10,000 tests / 64CRAFTPEH

Version: KIT, Page 1 of 1, Revision date: 19/12/2023

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
Total cRaf Cryptate antibody		1	-	Colorless	Liquid
Total cRaf d2 antibody		1	-	light blue	Liquid
cRaf Total Kit - Control Lysate	64CRAFTTDA	2	-	Colorless	Liquid
HTRF P-T prot Lysis Buf.2 (4X) 130 mL	64KL2FDF	1	7	Colorless	Liquid
HTRF P-T prot Block. reag.(100X) 2 mL	64KB1AAC	3	-	Colorless	Liquid
HTRF P-T prot Detect. Buf. 50 mL		1	7	Colorless	Liquid



according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 1 of 11, Revision date: 19/12/2023

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

1.1 Product identifier:

Designation / Trade name:Total cRaf Cryptate antibodyCAS 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 in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None

2.2 Label elements

Labelling according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Product identifier:

Designation / Trade name: Total cRaf Cryptate antibody

Substances contained in this product:



according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 2 of 11, Revision date: 19/12/2023

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:

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 3 of 11, Revision date: 19/12/2023

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

This mixture does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200.

<u>Additional information:</u> 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. ; Remove affected person from the danger area and lay down. ;

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

Following skin contact: After contact with skin, wash immediately with water ; Remove contaminated clothing ;

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. ; Give nothing to eat or drink. ; If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. ; **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. ; Additional information:

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation. ; Emergency procedures: Remove persons to safety. ; Personal precautions: Use personal protection equipment (see section 8). ;

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 4 of 11, Revision date: 19/12/2023

6.2 Environmental precautions

Do not allow to enter into surface water or drains. ; Ensure all waste water is collected and treated via a waste water treatment plant. ;

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. ; Avoid: Eye contact ; Avoid: Generation/formation of aerosols ; Avoid: Skin contact ; Avoid: inhalation ; In the immediate working surroundings there must be: Emergency shower installed ; In the immediate working surroundings there must be: Provide eye shower and label its location conspicuously ; Wash contaminated clothing immediately. ;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled. ; Do not pipet by mouth ; Wear suitable one-way gloves at work ;

<u>Advice on general occupational hygiene</u>: Handle in accordance with good industrial hygiene and safety practice; Observe technical data sheet.; Remove contaminated, saturated clothing.; Wash hands before breaks and after work.;

7.2 Conditions for safe storage, including any incompatibilities

<u>Requirements for storage rooms and vessels</u>: Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ; <u>Hints on storage assembly</u>: 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:

• OSHA (USA)

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 5 of 11, Revision date: 19/12/2023

8.1.2 DNEL/PNEC-values:

- DNEL worker
- DNEL consumer
- PNEC

8.2 Exposure controls

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

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7

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

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

Skin protection: Gloves ; Laboratory coats ;

Respiratory protection:Ensure adequate ventilation ;

Thermal hazards:

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

Consumer exposure control

<u>Measures related to consumer uses of the substance (as such or in mixtures):</u> <u>Measures related to the service life of the substance in articles:</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							
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling ra	ange (°C)						
Flash point (°C)							
Evaporation rate (kg/m ² /h)							
Flammability (type :) (%)							
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
iiiiiits	Lower explosive limit (%)						
Vapour pressure (kPa)							
Vapour density (g/cm ³)							
	Density (g/cm³)						



Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 6 of 11, Revision date: 19/12/2023

						V
s Relative density (g/cm ³)						
Bulk density (g/cm ³)						
Critical density (g/cm ³)						
) (g/L)						
ent (log Pow)						
n-octanol/water at pH :						
nperature (°C)						
emperature (°C)						
nergy : kJ						
Viscosity, dynamic (poiseuille)						
Viscosity, cinematic (cm ³ /s)						
Explosive properties						
Oxidising properties						
	Bulk density (g/cm³) Critical density (g/cm³)) (g/L) ent (log Pow) at pH : nperature (°C) emperature (°C) nergy : kJ Viscosity, dynamic (poiseuille) Viscosity, cinematic (cm³/s) Explosive properties	Bulk density (g/cm³) Critical density (g/cm³) (g/L) ent (log Pow) at pH : nperature (°C) emperature (°C) more rature (°C) Viscosity, dynamic (poiseuille) Viscosity, cinematic (cm³/s) Explosive properties	Bulk density (g/cm³)	Bulk density (g/cm³) Image: Critical density (g/cm³) (g/L) Image: Critical density (g/cm³) ent (log Pow) Image: Critical density (g/cm³) at pH : Image: Critical density (g/cm³) nperature (°C) Image: Critical density (g/cm³) emperature (°C) Image: Critical density (g/cm³) Viscosity, dynamic (poiseuille) Image: Critical density (g/cm³) Viscosity, cinematic (cm³/s) Image: Critical density (g/cm³) Explosive properties Image: Critical density (g/cm³)	Bulk density (g/cm ³) Image: Critical density (g/cm ³) (g/L) Image: Critical density (g/cm ³) ent (log Pow) at pH : Image: Critical density (g/cm ³) nperature (°C) Image: Critical density (g/cm ³) emperature (°C) Image: Critical density (g/cm ³) Viscosity, dynamic (poiseuille) Image: Critical density (g/cm ³) Viscosity, cinematic (cm ³ /s) Image: Critical density (g/cm ³) Explosive properties Image: Critical density (g/cm ³)	Bulk density (g/cm ³) Image: Construction of the second seco

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. ; Thermal decomposition can lead to the escape of irritating gases and vapors. ;

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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 7 of 11, Revision date: 19/12/2023

Acute inhalative toxicity:

Practical experience / human evidence: Assessment / Classification: General Remark:

• Skin corrosion/irritation

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)

 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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Specific target organ toxicity (single exposure)

 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 <u>Mixtures</u> 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

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 9 of 11, Revision date: 19/12/2023

Assessment / Classification:

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. ;

Other disposal recommendations: Additional information:

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:Limited quantities for ADR/RID:Excepted Quantities for ADR/RID:Packing Instructions for ADR/RID:Special packing provisions for ADR/RID:Special packing provisions for ADR/RID:Portable tanks and bulk containers Special Provisions:Portable tanks and bulk containers Special Provisions:ADR Tank special provisions:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 10 of 11, Revision date: 19/12/2023

Vehicle for tank carriage:	Special provisions for carriage Packages:
Special provisions for carriage Bulk:	
Special provisions for carriage for loading, unload	ing 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:	
<u>Air transport (ICAO-TI / IATA-DGR)</u>	
Subsidiary risk for IATA:	Excepted quantity for IATA:
Passenger and Cargo Aircraft Limited Quantities F	Packing Instructions:
Passenger and Cargo Aircraft Limited Quantities N	Maximal Net Quantity :
Passenger and Cargo Aircraft Packaging Instruction	ons :
Passenger and Cargo Aircraft Maximal Net Quant	ity :
Cargo Aircraft only Packaging Instructions :	
Cargo Aircraft only Maximal Net Quantity :	

SECTION 15 : REGULATORY INFORMATION

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

Special Provisions for IATA:

15.2 Chemical Safety Assessment:

For the following substances of this mixture a chemical safety assessment has been carried out :

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

ERG code:

Date of the previous version: Modifications:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf Cryptate antibody Version: US, Page 11 of 11, Revision date: 19/12/2023

16.2 Abbreviations and acronyms:

- 16.3 Key literature references and sources for data
- 16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

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



according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf d2 antibody Version: US, Page 1 of 11, Revision date: 19/12/2023

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

REACH No:

1.1 Product identifier:

Designation / Trade name: Total cRaf d2 antibody

CAS No.: Index No: EC 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 in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None

2.2 Label elements

Labelling according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Product identifier:

Designation / Trade name: Total cRaf d2 antibody

Substances contained in this product:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf d2 antibody Version: US, Page 2 of 11, Revision date: 19/12/2023

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:

Designation / Trade name: Total cRaf d2 antibody Version: US, Page 3 of 11, Revision date: 19/12/2023

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

This mixture does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200.

<u>Additional information:</u> 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. ; Remove affected person from the danger area and lay down. ;

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

Following skin contact: After contact with skin, wash immediately with water ; Remove contaminated clothing ;

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. ; Give nothing to eat or drink. ; If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. ; **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. ; Additional information:

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation. ; Emergency procedures: Remove persons to safety. ; Personal precautions: Use personal protection equipment (see section 8). ;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf d2 antibody Version: US, Page 4 of 11, Revision date: 19/12/2023

6.2 Environmental precautions

Do not allow to enter into surface water or drains. ; Ensure all waste water is collected and treated via a waste water treatment plant. ;

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. ; Avoid: Eye contact ; Avoid: Generation/formation of aerosols ; Avoid: Skin contact ; Avoid: inhalation ; In the immediate working surroundings there must be: Emergency shower installed ; In the immediate working surroundings there must be: Provide eye shower and label its location conspicuously ; Wash contaminated clothing immediately. ;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled. ; Do not pipet by mouth ; Wear suitable one-way gloves at work ;

<u>Advice on general occupational hygiene</u>: Handle in accordance with good industrial hygiene and safety practice; Observe technical data sheet.; Remove contaminated, saturated clothing.; Wash hands before breaks and after work.;

7.2 Conditions for safe storage, including any incompatibilities

<u>Requirements for storage rooms and vessels</u>: Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ; <u>Hints on storage assembly</u>: 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:

• OSHA (USA)

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: Total cRaf d2 antibody Version: US, Page 5 of 11, Revision date: 19/12/2023

8.1.2 DNEL/PNEC-values:

- DNEL worker
- DNEL consumer
- PNEC

8.2 Exposure controls

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

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7

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

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

Skin protection: Gloves ; Laboratory coats ;

Respiratory protection:Ensure adequate ventilation ;

Thermal hazards:

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

Consumer exposure control

<u>Measures related to consumer uses of the substance (as such or in mixtures):</u> <u>Measures related to the service life of the substance in articles:</u>

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Liquid ;
Colour	light blue
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 r	ange (°C)						
Flash point (°C)							
Evaporation rate (kg/m ² /h)							
Flammability (type :) (%)							
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
Lower explosive limit (%)							
Vapour pressure (kPa)							
Vapour density (g/cm ³)							
	Density (g/cm³)						



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				V
Densitie	es Relative density (g/cm ³)			
	Bulk density (g/cm ³)			
	Critical density (g/cm ³)			
Solubility (Type	:) (g/L)			
Partition coeffic				
n-octanol/water at pH :				
Auto-ignition te	mperature (°C)			
Decomposition	temperature (°C)			
Decomposition	energy : kJ			
Viscosity	Viscosity, dynamic (poiseuille)			
	Viscosity, cinematic (cm ³ /s)			
	Explosive properties			
	Oxidising 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. ; Thermal decomposition can lead to the escape of irritating gases and vapors. ;

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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Acute inhalative toxicity:

Practical experience / human evidence: Assessment / Classification: General Remark:

• Skin corrosion/irritation

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)

 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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Specific target organ toxicity (single exposure)

 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 <u>Mixtures</u> 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

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Assessment / Classification:

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. ;

Other disposal recommendations: Additional information:

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:Limited quantities for ADR/RID:Excepted Quantities for ADR/RID:Packing Instructions for ADR/RID:Special packing provisions for ADR/RID:Special packing provisions for ADR/RID:Portable tanks and bulk containers Special Provisions:Portable tanks and bulk containers Special Provisions:ADR Tank special provisions:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Vehicle for tank carriage:	Special provisions for carriage Packages:
Special provisions for carriage Bulk: Special provisions for carriage for loading, unload	ing and handling:
Special Provisions for carriage Operation:	
Hazard identification No:	Transport category (Tunnel restriction code):
	transport category (runner restriction code).
<u>Sea transport (IMDG)</u>	
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 P	
Passenger and Cargo Aircraft Limited Quantities N	Maximal Net Quantity :
Passenger and Cargo Aircraft Packaging Instructio	ons :
Passenger and Cargo Aircraft Maximal Net Quanti	ity :
Cargo Aircraft only Packaging Instructions :	
Cargo Aircraft only Maximal Net Quantity :	
cargo Andran only Maximar Net Qualitity.	

SECTION 15 : REGULATORY INFORMATION

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

Special Provisions for IATA:

15.2 Chemical Safety Assessment:

For the following substances of this mixture a chemical safety assessment has been carried out :

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

ERG code:

Date of the previous version: Modifications:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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16.2 Abbreviations and acronyms:

- 16.3 Key literature references and sources for data
- 16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

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



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

1.1 Product identifier:

Designation / Trade name: cRaf Total Kit - Control Lysate 64CRAFTTDA

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 in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
Hazardous to the aquatic environment - Aquatic Chronic 2 - H411	Aquatic Chronic 2	H411	P273 P391 P501
Serious eye damage/eye irritation - Eye Dam. 1 - H318	Eye Dam. 1	H318	P280 P305 + P351 + P338 P310

2.2 Label elements

Labelling according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Product identifier:

Designation / Trade name: cRaf Total Kit - Control Lysate 64CRAFTTDA

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Substances contained in this product:

Substance name	CAS n°	Index n°	EC n°
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0		500-315-8
trisodium tetraoxovanadate	13721-39-6		237-287-9
Ethylenediamine-N,N,N1,N1-tetraacetic acid	6381-92-6		
Poly(oxy-1,2-ethanediyl), α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy-	9002-93-1		

Hazard pictograms

GHS05-acid GHS09-pollut



<u>Signal word:</u> Danger

Hazard and precautionary statements:

Code	Hazard statments
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/
P391	Collect spillage.
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:

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Concentration (%)	SCL	M-factor
Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3- tetramethylbutyl)phenyl]- ω-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	< 10%		
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched	127087-87-0		500-315-8	Acute toxicity - Acute Tox. 4 - H302 - Oral Acute toxicity - Acute Tox. 4 - H332 - Inhalation Hazardous to the aquatic environment - Aquatic Chronic 2 - H411 Serious eye damage/eye irritation - Eye Dam. 1 - H318	< 10%		1
sodium chloride	7647-14-5		231-598-3		< 10%		
ethanol	64-17-5	603-002-00-5	200-578-6	Flammable liquid - Flam. Liq. 2 - H225	< 1%		
Ethylenediamine- N,N,N1,N1-tetraacetic acid	6381-92-6			Acute toxicity - Acute Tox. 4 - H332 - Inhalation Specific target organ toxicity - repeated exposure - STOT RE 2 - H373	< 1%		
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	< 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.;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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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. ; Additional information:

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

<u>Protective measures:</u> 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. ;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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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>Requirements for storage rooms and vessels</u>: Keep container tightly closed. ; <u>Hints on storage assembly:</u> 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:

• OSHA (USA)

Source :	Occupational Safe	ety and Health Admin	istration (OSHA) Permiss	sible Exposure Limits (PEL	S) from 29 CFR 1910.100	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)
13472-36-1		13472-36-1				
13721-39-6 / 237- 287-9	237-287-9	13721-39-6				0,05
6381-92-6		6381-92-6				
64-17-5 / 200-578-6	200-578-6	64-17-5	1000	1900		
68412-54-4 / 500- 209-1	500-209-1	68412-54-4				
7647-14-5 / 231-598- 3	231-598-3	7647-14-5				

Source :	TRGS 903, Novem	ber 2015, BAuA		
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)
13472-36-1		13472-36-1		
13721-39-6 / 237- 287-9	237-287-9	13721-39-6		
6381-92-6		6381-92-6		
64-17-5 / 200-578-6	200-578-6	64-17-5		
68412-54-4 / 500- 209-1	500-209-1	68412-54-4		
7647-14-5 / 231-598- 3	231-598-3	7647-14-5		



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8.1.2 DNEL/PNEC-values:

• DNEL worker

Source :	GESTIS – su	bstance 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)	systemic ettects	Long-term – inhalation, local effects (mg/m3)	systemic ettects
13472-36-1		13472-36-1					2.79-2.79		
13721-39-6 / 237-287-9	237-287-9	13721-39-6							
6381-92-6		6381-92-6				1.5-1.5			
64-17-5 / 200-578-6	200-578-6	64-17-5					950-950		
68412-54-4 / 500-209-1	500-209-1	68412-54-4					4.7-4.7		
7647-14-5 / 231-598-3	231-598-3	7647-14-5					2068.62- 2068.62		

• DNEL consumer

Source :	GESTIS – s	ubstance dat	tabase						
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)	cyctomic ottortc	Long-term – inhalation, local effects (mg/m3)	systemic ottorts
13472-36-1		13472-36-1							
13721-39-6 / 237-287-9	237-287-9	13721-39-6							
6381-92-6		6381-92-6							
64-17-5 / 200-578-6	200-578-6	64-17-5							
68412-54-4 / 500-209-1	500-209-1	68412-54-4							
7647-14-5 / 231-598-3	231-598-3	7647-14-5							

• PNEC

Source :	INERIS																		
		EC-No. CAS-No		PNEC AQUATIC										PNEC Sediment					
Substance E	EC-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)		
13472-36-1		13472-36-1																	
13721-39-6 / 237-287- 9	237-287-9	13721-39-6																	



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									\sim	$\boldsymbol{\mathcal{C}}$
6381-92-6		6381-92-6								
64-17-5 / 200-578-6	200-578-6	64-17-5								
68412-54-4 / 500-209- 1		68412-54-4								
7647-14-5 / 231-598- 3	231-598-3	7647-14-5								

Source :	INERIS													
								Oth	ers					
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)
13472-36-1		13472-36-1												
13721-39-6 / 237-287-9	237-287-9	13721-39-6												
6381-92-6		6381-92-6												
64-17-5 / 200-578-6	200-578-6	64-17-5												
68412-54-4 / 500-209-1	500-209-1	68412-54-4												
7647-14-5 / 231-598-3	231-598-3	7647-14-5												

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7

8.2.2 Personal protective equipment:

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

Skin protection: Gloves ;

Respiratory protection:Ensure adequate ventilation ;

Thermal hazards:

8.2.3 Environmental exposure controls:

Consumer exposure control

Measures related to consumer uses of the substance (as such or in mixtures): Measures related to the service life of the substance in articles:

SECTION 9: **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Ap	pear	rance

Appearance	
Physical state	Liquid ;
Colour	Colorless ;
N	



h

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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	Ddour							Ť
		eshold (ppm)						
			Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
Н				(
1elting point (°	C)							
reezing point (°	°C)							
nitial boiling po	int/boiling	range (°C)						
lash point (°C)								
vaporation rate	e (kg/m²/h)							
lammability (ty	/pe :) (%)							
Upper/lov ammability or		Upper explosive limit (%)						
limits		Lower explosive limit (%)						
apour pressure	e (kPa)	• • • • • • •						
apour density	(g/cm³)							
		Density (g/cm³)						
Densitie	es	Relative density (g/cm ³)						
		Bulk density (g/cm³)						
		Critical density (g/cm ³)						
olubility (Type	:) (g/L)							
artition coeffic -octanol/water		w)						
uto-ignition te	mperature	(°C)						
ecomposition f		re (°C)						
Viscosity	V	'iscosity, dynamic (poiseuille)				1		
		Viscosity, cinematic (cm ³ /s)						
	Explo	osive properties						
	Oxid	ising 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. ;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

• Acute toxicity

Animal data: Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
127087-87-0 / 500-315-8					Data lacking.
9002-93-1	1800-1800	Rat			

Acute dermal toxicity:

Acute inhalative toxicity:

Substance name	C(E)L50 (mg/L)	Exposure time	Species	Method	Remark
127087-87-0 / 500-315-8					

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
127087-87-0 / 500-						

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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				v	
315-8					
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)

• Germ cell mutagenicity:

Animal data:

Assessment / Classification:

o 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)

 $\circ~$ 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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Other information

• Aspiration hazard

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

11.1.1 <u>Mixtures</u>

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	ns relatives	à la régleme	entation VM	IE (France) : I	ED 984, 07.201	2			
Substance	EC-No.	CAS-No	LC50 (mg/L)	EC50 (mg/L)	Test duration	Species	Result/ Evaluation	Method	Remark	General Remark
127087-87-0 / 500-315-8	500-315-8	127087- 87-0								
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.	CAS-No	NOEC (mg/L)	Test duration	Species	Method	Remark	General Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0						
9002-93-1		9002-93-1						

Acute (short-term) toxicity to crustacea

Source :	Information	s relatives à la	a réglementa	ation VME (Frar	nce) : ED 984, 0	7.2012			
Substance	EC-No.	CAS-No	EC50 (mg/L)	Test duration	Species	Result/ Evaluation	Method	Remark	General Remark
127087-87-0 / 500-315-8	500-315-8	127087-87- 0							
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
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_								\sim
Substance	EC-No.	CAS-No	NOEC (mg/L)	Test duration	Species	Method	Remark	General Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0						
9002-93-1		9002-93-1						

Acute (short-term) toxicity to algae and cyanobacteria

Source :	Information	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	
127087-87-0 / 500-315-8	500-315-8	127087-87- 0								
9002-93-1		9002-93-1								

Toxicity to microorganisms and other aquatic plants / organisms

Source :	Informations rela	nformations relatives à la réglementation VME (France) : ED 984, 07.2012								
Substance	EC-No.	CAS-No	EC50 (mg/L)	Species	Method	Remark	General Remark			
127087-87-0 / 500-315-8	500-315-8	127087-87-0								
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.	CAS-No	Inoculum	Biodegradation parameter	Degradation rate (%)	Method	Remark			
127087-87-0 / 500-315-8	500-315-8	127087-87-0								
9002-93-1		9002-93-1		BOD (% of COD).	36-36		In accordance with the required stability the product is poorly biodegradable.			

Abiotic Degradation:

Source :								
Substance	EC-No.	CAS-No	Abiotic degradation test type	Half-life time (j)	Temperature (°C)	рН	Method	Remark
127087-87-0 / 500-315-8	500-315-8	127087-87- 0						
9002-93-1		9002-93-1						

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):



Designation / Trade name: cRaf Total Kit - Control Lysate 64CRAFTTDA Version: US, Page 13 of 15, Revision date: 11/09/2023

						\sim
Source :						
Substance	EC-No.	CAS-No	Species	Result	Method	Remark
127087-87-0 / 500- 315-8	500-315-8	127087-87-0				
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
127087-87-0	500-315-	127087-									
/ 500-315-8	8	87-0									
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. ;

Other disposal recommendations: Additional information:

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 packing provisions for ADR/RID:

Special Provisions for ADR/RID: Excepted Quantities for ADR/RID:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: cRaf Total Kit - Control Lysate 64CRAFTTDA Version: US, Page 14 of 15, Revision date: 11/09/2023

Mixed packing provisions:	Portable tanks and bulk containers Instructions:
Portable tanks and bulk containers Special Provision	
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, unloadi	ng 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 water way transport (ADNI)	
Inland waterway transport (ADN) Classification Code ADN:	Cracial Dravisions ADN
Limited quantities ADN:	Special Provisions ADN:
•	Excepted quantities ADN:
Carriage permitted:	Equipment required:
Provisions concerning loading and unloading:	Number of blue conec/lighter
Provisions concerning carriage: Remark:	Number of blue cones/lights:
<u>Air transport (ICAO-TI / IATA-DGR)</u>	
Subsidiary risk for IATA:	Excepted quantity for IATA:
Passenger and Cargo Aircraft Limited Quantities Pa	acking Instructions:
Passenger and Cargo Aircraft Limited Quantities M	laximal Net Quantity :
Passenger and Cargo Aircraft Packaging Instruction	ns :
Passenger and Cargo Aircraft Maximal Net Quantit	ry :
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

15.2 Chemical Safety Assessment:

For the following substances of this mixture a 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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: cRaf Total Kit - Control Lysate 64CRAFTTDA Version: US, Page 15 of 15, Revision date: 11/09/2023

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

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

Code	Hazard statments
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage.
H319	Causes serious eye irritation
H332	Harmful if inhaled
Н373	May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 1 of 12, Revision date: 05/12/2023

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

1.1 Product identifier:

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AACCAS 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 in accordance with 29 CFR 1910 (OSHA HCS)	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 Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Product identifier:

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

Substances contained in this product:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 2 of 12, Revision date: 05/12/2023

Hazard pictograms GHS07-exclam



<u>Signal word:</u> Warning

Hazard and precautionary statements:

Code	Hazard statments
H319	Causes serious eye irritation
P264	Wash 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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 3 of 12, Revision date: 05/12/2023

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Concentration (%)	SCL	M-factor
disodium dihydrogenpyrophosphate	7758-16-9		1/31-835-0	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: /

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 4 of 12, Revision date: 05/12/2023

5.3 Advice for fire-fighters

Wear Protective clothing. ; Additional information:

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

<u>Protective measures:</u> 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. ; <u>Advice on general occupational hygiene</u>: Handle in accordance with good industrial hygiene and safety practice ;

7.2 Conditions for safe storage, including any incompatibilities

<u>Requirements for storage rooms and vessels</u>: Keep container tightly closed. ; <u>Hints on storage assembly:</u> 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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 5 of 12, Revision date: 05/12/2023

• OSHA (USA)

Source :	Occupational Safe	ty and Health Admin	istration (OSHA) Permis	sible Exposure Limits (PEL	S) from 29 CFR 1910.100	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)
287-9	237-287-9	13721-39-6				0,05
7758-16-9 / 231-835- 0	231-835-0	7758-16-9				

Source :	TRGS 903, November 2015, BAuA										
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)							
287-9		13721-39-6									
7758-16-9 / 231-835- 0	231-835-0	7758-16-9									

8.1.2 DNEL/PNEC-values:

DNEL worker

Source :	GESTIS – su	bstance 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)	systemic etterts	Long-term – inhalation, local effects (mg/m3)	systemic etterts
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 – si	ubstance dat	abase						
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	dermal, local	systemic etterts	Acute – inhalation, local effects (mg/m3)	systemic etterts	Long-term – inhalation, local effects (mg/m3)	systemic etterts
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

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 6 of 12, Revision date: 05/12/2023

Source :	INERIS																
					PN		P	NEC S	edimen	t							
Substance	EC-No.	CAS-No		freshwate	r	m	arine wat	ter	interr	nittent re	lease	fi	reshwate	er	marine water		
Substance	ince EC-NO. CAS-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		13721-39-6															
7758-16-9 / 231-835- 0	231-835-0	7758-16-9															

Source :	INERIS														
			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)	
13721-39-6 / 237-287-9	, 237-287-9	13721-39-6													
7758-16-9 / 231-835-0	231-835-0	7758-16-9													

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7

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 Environmental exposure controls:

Consumer exposure control

<u>Measures related to consumer uses of the substance (as such or in mixtures):</u> <u>Measures related to the service life of the substance in articles:</u>

Measures related to the service life of the substance in articles

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

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

	 Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
pH					
Melting point (°C)					

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 7 of 12, Revision date: 05/12/2023

					V V
Freezing point (°C					
Initial boiling point/boiling range (°C)					
Flash point (°C)					
Evaporation rate (kg/m²/h)				
Flammability (type	2 :) (%)				
Upper/lowe flammability or ex limits					
limits	Lower explosive limit (%)				
Vapour pressure (kPa)				
Vapour density (g,	Vapour density (g/cm³)				
	Density (g/cm³)				
	Relative density (g/cm ³)				
	Bulk density (g/cm ³)				
	Critical density (g/cm ³)				
Solubility (Type :) (g/L)				
Partition coefficie	nt (log Pow)				
n-octanol/water a	t pH :				
Auto-ignition tem	perature (°C)				
Decomposition temperature (°C) Decomposition energy : kJ					
Viscosity	Viscosity, dynamic (poiseuille)				
	Viscosity, cinematic (cm ³ /s)				
	Explosive properties				
	Oxidising 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

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 8 of 12, Revision date: 05/12/2023

Substances

• 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

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		

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 9 of 12, Revision date: 05/12/2023

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

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 - $\circ \quad \text{Germ cell mutagenicity:} \quad$

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)

 \circ $\,$ 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

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 10 of 12, Revision date: 05/12/2023

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

11.1.1 <u>Mixtures</u> 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):

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 11 of 12, Revision date: 05/12/2023

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

Other disposal recommendations: Additional information:

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

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

Land transport (ADR/RID)	
Classification code ADR:	Special Provisions for ADR/RID:
Limited quantities 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 Prov	isions:
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, unloa	ading and handling:
Special Provisions for carriage Operation:	
Hazard identification No:	Transport category (Tunnel restriction code):
<u>Sea transport (IMDG)</u>	
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:	

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

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Block. reag.(100X) 2 mL 64KB1AAC Version: US, Page 12 of 12, Revision date: 05/12/2023

Air transport (ICAO-TI / IATA-DGR)Subsidiary risk 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

15.2 Chemical Safety Assessment:

For the following substances of this mixture a chemical safety assessment has been carried out :

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:16/10/2023 Modifications:

- 16.2 Abbreviations and acronyms:
- 16.3 Key literature references and sources for data
- 16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

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

Code	Hazard statments
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled



according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 1 of 15, Revision date: 11/09/2023

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

1.1 Product identifier:

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDFCAS 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 in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
Hazardous to the aquatic environment - Aquatic Chronic 2 - H411	Aquatic Chronic 2	H411	P273 P391 P501
Serious eye damage/eye irritation - Eye Dam. 1 - H318	Eye Dam. 1	H318	P280 P305 + P351 + P338 P310

2.2 Label elements

Labelling according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Product identifier:

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 2 of 15, Revision date: 11/09/2023

Substances contained in this product:

Substance name	CAS n°	Index n°	EC n°
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0		500-315-8
trisodium tetraoxovanadate	13721-39-6		237-287-9
Ethylenediamine-N,N,N1,N1-tetraacetic acid	6381-92-6		
Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω- hydroxy-	9002-93-1		

Hazard pictograms

GHS05-acid GHS09-pollut



<u>Signal word:</u> Danger

Hazard and precautionary statements:

Code	Hazard statments
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/
P391	Collect spillage.
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:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 3 of 15, Revision date: 11/09/2023

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Concentration (%)	SCL	M-factor
Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3- tetramethylbutyl)phenyl]- ω-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	< 10%		
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched	127087-87-0		500-315-8	Acute toxicity - Acute Tox. 4 - H302 - Oral Acute toxicity - Acute Tox. 4 - H332 - Inhalation Hazardous to the aquatic environment - Aquatic Chronic 2 - H411 Serious eye damage/eye irritation - Eye Dam. 1 - H318	< 10%		1
sodium chloride	7647-14-5		231-598-3		< 10%		
ethanol	64-17-5	603-002-00-5	200-578-6	Flammable liquid - Flam. Liq. 2 - H225	< 1%		
Ethylenediamine- N,N,N1,N1-tetraacetic acid	6381-92-6			Acute toxicity - Acute Tox. 4 - H332 - Inhalation Specific target organ toxicity - repeated exposure - STOT RE 2 - H373	< 1%		
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	< 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.;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 4 of 15, Revision date: 11/09/2023

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. ; Additional information:

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

<u>Protective measures:</u> 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. ;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 5 of 15, Revision date: 11/09/2023

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>Requirements for storage rooms and vessels</u>: Keep container tightly closed. ; <u>Hints on storage assembly:</u> 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:

• OSHA (USA)

Source :	Occupational Safe	ety and Health Admin	istration (OSHA) Permiss	sible Exposure Limits (PEL	S) from 29 CFR 1910.100	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)
13472-36-1		13472-36-1				
13721-39-6 / 237- 287-9	237-287-9	13721-39-6				0,05
6381-92-6		6381-92-6				
64-17-5 / 200-578-6	200-578-6	64-17-5	1000	1900		
68412-54-4 / 500- 209-1	500-209-1	68412-54-4				
7647-14-5 / 231-598- 3	231-598-3	7647-14-5				

Source :	TRGS 903, Novem	IRGS 903, November 2015, BAuA								
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)						
13472-36-1		13472-36-1								
13721-39-6 / 237- 287-9	237-287-9	13721-39-6								
6381-92-6		6381-92-6								
64-17-5 / 200-578-6	200-578-6	64-17-5								
68412-54-4 / 500- 209-1	500-209-1	68412-54-4								
7647-14-5 / 231-598- 3	231-598-3	7647-14-5								



Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 6 of 15, Revision date: 11/09/2023

8.1.2 DNEL/PNEC-values:

• DNEL worker

Source :	GESTIS – su	bstance 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)	systemic ettects	Long-term – inhalation, local effects (mg/m3)	systemic ettects
13472-36-1		13472-36-1					2.79-2.79		
13721-39-6 / 237-287-9	237-287-9	13721-39-6							
6381-92-6		6381-92-6				1.5-1.5			
64-17-5 / 200-578-6	200-578-6	64-17-5					950-950		
68412-54-4 / 500-209-1	500-209-1	68412-54-4					4.7-4.7		
7647-14-5 / 231-598-3	231-598-3	7647-14-5					2068.62- 2068.62		

• DNEL consumer

Source :	ce : GESTIS – 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)	cyctomic ottortc	Long-term – inhalation, local effects (mg/m3)	systemic ottorts	
13472-36-1		13472-36-1								
13721-39-6 / 237-287-9	237-287-9	13721-39-6								
6381-92-6		6381-92-6								
64-17-5 / 200-578-6	200-578-6	64-17-5								
68412-54-4 / 500-209-1	500-209-1	68412-54-4								
7647-14-5 / 231-598-3	231-598-3	7647-14-5								

• PNEC

Source :	INERIS																
				PNEC AQUATIC								PNEC Sediment					
Substance	EC-No.	CAS-No	1	freshwate	r	m	arine wat	er	intermittent release freshwat		freshwater marine				ær		
			(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)
13472-36-1		13472-36-1															
13721-39-6 / 237-287- 9	237-287-9	13721-39-6															



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_		1							\sim	$\boldsymbol{\mathcal{C}}$
6381-92-6		6381-92-6								
64-17-5 / 200-578-6	200-578-6	64-17-5								
68412-54-4 / 500-209- 1	500-209-1	68412-54-4								
7647-14-5 / 231-598- 3	231-598-3	7647-14-5								

Source :	INERIS													
								Oth	ers					
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)
13472-36-1		13472-36-1												
13721-39-6 / 237-287-9	, 237-287-9	13721-39-6												
6381-92-6		6381-92-6												
64-17-5 / 200-578-6	200-578-6	64-17-5												
68412-54-4 / 500-209-1	, 500-209-1	68412-54-4												
7647-14-5 / 231-598-3	231-598-3	7647-14-5												

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7

8.2.2 Personal protective equipment:

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

Skin protection: Gloves ;

Respiratory protection:Ensure adequate ventilation ;

Thermal hazards:

8.2.3 Environmental exposure controls:

Consumer exposure control

Measures related to consumer uses of the substance (as such or in mixtures): Measures related to the service life of the substance in articles:

SECTION 9: **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Ap	pear	rance

Appearance	
Physical state	Liquid ;
Colour	Colorless ;



h

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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C	Ddour								•	1
C	dour thre	shold (ppm)								
										-
				Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark	
Н				7						
/lelting point (°C	C)									
reezing point (°	°C)									
nitial boiling poi	ial boiling point/boiling range (°C)									
lash point (°C)										
vaporation rate	e (kg/m²/h)									
lammability (ty	pe :) (%)									
Upper/low ammability or e		Upper explo (%)								
limits		Lower explosiv	ve limit (%)							
apour pressure	e (kPa)									
'apour density ((g/cm³)									
		Density (g/cm ³)								
Densitie	es	Relative density (g/o								
		Bulk density (g/cm ³)				_				
	x / //x	Critical density (g/cr	m³)							
olubility (Type :										
artition coefficient (log Pow) -octanol/water at pH :										
uto-ignition ter	mperature	(°C)								
ecomposition temperature (°C) ecomposition energy : kJ										
Viscosity Viscosity, dynamic (poiseuille)										
Viscosity, cinematic (cm ³ /s)										
Explosive properties										
Oxidising 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. ;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 9 of 15, Revision date: 11/09/2023

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

• Acute toxicity

Animal data: Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
127087-87-0 / 500-315-8					Data lacking.
9002-93-1	1800-1800	Rat			

Acute dermal toxicity:

Acute inhalative toxicity:

Substance name	C(E)L50 (mg/L)	Exposure time	Species	Method	Remark
127087-87-0 / 500-315-8					

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
127087-87-0 / 500-						

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 10 of 15, Revision date: 11/09/2023

					v	
1	315-8					
9	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)

• Germ cell mutagenicity:

Animal data:

Assessment / Classification:

o 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)

 \circ $\,$ 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:



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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	formations 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			
127087-87-0 / 500-315-8	500-315-8	127087- 87-0											
9002-93-1		9002-93-1	8,9		96	Pimephales promelas (fathead minnow)							

Chronic (long-term) fish toxicity

Source :	Informations r	formations 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					
127087-87-0 / 500-315-8	500-315-8	127087-87-0											
9002-93-1		9002-93-1											

Acute (short-term) toxicity to crustacea

Source :	Information	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				
127087-87-0 / 500-315-8	500-315-8	127087-87- 0											
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
--



Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 12 of 15, Revision date: 11/09/2023

	•		•			•		\sim
Substance	EC-No.	CAS-No	NOEC (mg/L)	Test duration	Species	Method	Remark	General Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0						
9002-93-1		9002-93-1						

Acute (short-term) toxicity to algae and cyanobacteria

Source :	Information	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				
127087-87-0 / 500-315-8	500-315-8	127087-87- 0											
9002-93-1		9002-93-1											

Toxicity to microorganisms and other aquatic plants / organisms

Source :	Informations rela	nformations relatives à la réglementation VME (France) : ED 984, 07.2012										
Substance	EC-No.	CAS-No	EC50 (mg/L)	Species	Method	Remark	General Remark					
127087-87-0 / 500-315-8	500-315-8	127087-87-0										
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. CAS-No Inoculum Biodegradation parameter rate (%) Method Remark									
127087-87-0 / 500-315-8	500-315-8	127087-87-0								
9002-93-1		9002-93-1		BOD (% of COD).	36-36		In accordance with the required stability the product is poorly biodegradable.			

Abiotic Degradation:

Source :								
Substance	EC-No.	CAS-No	Abiotic degradation test type	Half-life time (j)	Temperature (°C)	рН	Method	Remark
127087-87-0 / 500-315-8	500-315-8	127087-87- 0						
9002-93-1		9002-93-1						

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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						\sim
Source :						
Substance	EC-No.	CAS-No	Species	Result	Method	Remark
127087-87-0 / 500- 315-8	500-315-8	127087-87-0				
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
127087-87-0	500-315-	127087-									
/ 500-315-8	8	87-0									
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. ;

Other disposal recommendations: Additional information:

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 packing provisions for ADR/RID:

Special Provisions for ADR/RID: Excepted Quantities for ADR/RID:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 14 of 15, Revision date: 11/09/2023

Mixed packing provisions: Portable tanks and bulk containers Special Provisio ADR Tank Code: Vehicle for tank carriage: Special provisions for carriage Bulk: Special provisions for carriage for loading, unloadin Special Provisions for carriage Operation: Hazard identification No:	ADR Tank special provisions: Special provisions for carriage Packages:
Sea transport (IMDG) Marine Pollutant: Packing provisions for IMDG: Packing instructions for IMDG: IBC Provisions: UN tank instructions: EmS : Properties and observations:	Subsidiary risk(s) for IMDG: Limited quantities for IMDG: IBC Instructions: IMO tank instructions: Tanks and bulk Provisions: Stowage and segregation for IMDG:
Inland waterway transport (ADN) Classification Code ADN: Limited quantities ADN: Carriage permitted: Provisions concerning loading and unloading: Provisions concerning carriage: Remark:	Special Provisions ADN: Excepted quantities ADN: Equipment required: Number of blue cones/lights:
<u>Air transport (ICAO-TI / IATA-DGR)</u> Subsidiary risk for IATA: Passenger and Cargo Aircraft Limited Quantities Pa Passenger and Cargo Aircraft Limited Quantities M Passenger and Cargo Aircraft Packaging Instruction Passenger and Cargo Aircraft Maximal Net Quantit Cargo Aircraft only Packaging Instructions : Cargo Aircraft only Maximal Net Quantity : ERG code:	laximal Net Quantity : ns :

SECTION 15 : REGULATORY INFORMATION

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

15.2 Chemical Safety Assessment:

For the following substances of this mixture a chemical safety assessment has been carried out :

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:10/09/2023 Modifications:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Lysis Buf.2 (4X) 130 mL 64KL2FDF Version: US, Page 15 of 15, Revision date: 11/09/2023

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

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

Code	Hazard statments
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage.
H319	Causes serious eye irritation
H332	Harmful if inhaled
Н373	May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects



Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 1 of 12, Revision date: 28/11/2023

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

1.1 Product identifier:

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 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 in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None

2.2 Label elements

Labelling according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Product identifier:

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL

Substances contained in this product:



Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 2 of 12, Revision date: 28/11/2023

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:

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 3 of 12, Revision date: 28/11/2023

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	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: /

5.3 Advice for fire-fighters

Wear Protective clothing.;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 4 of 12, Revision date: 28/11/2023

Additional information:

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. ; <u>Advice on general occupational hygiene</u> : Handle in accordance with good industrial hygiene and safety practice ;

7.2 Conditions for safe storage, including any incompatibilities

<u>Requirements for storage rooms and vessels</u>: Keep container tightly closed. ; <u>Hints on storage assembly:</u> 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:

• OSHA (USA)



Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 5 of 12, Revision date: 28/11/2023

Source :	Occupational Safe	Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000								
Substance	8-hour TWA (ppm) hour TWA (mg/m3) 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								

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						

8.1.2 DNEL/PNEC-values:

• DNEL worker

Source :	GESTIS – su	ESTIS – substance database									
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	systemic etterts	Acute – inhalation, local effects (mg/m3)	systemic etterts	Long-term – inhalation, local effects (mg/m3)	systemic etterts		
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 – s	ESTIS – 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)	Acute – inhalation, systemic effects (mg/m3)	Long-term – inhalation, local effects (mg/m3)	Long-term – inhalation, systemic effects (mg/m3)		
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

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



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			·									_					
				freshwate	r	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															
7789-23-3 / 232-151- 5	232-151-5	7789-23-3															

Source :	INERIS													
			Others											
Substance E	EC-No.	CAS-No	PNEC soil		PNEC s	IEC 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												

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7

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 Environmental exposure controls:

Consumer exposure control

<u>Measures related to consumer uses of the substance (as such or in mixtures):</u> <u>Measures related to the service life of the substance in articles:</u>

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

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

		Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
рН	7					
Melting point (°C)						
Freezing point (°C)						
Initial boiling point/boiling range (°C)						

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 7 of 12, Revision date: 28/11/2023

						v
n)						
Upper explosive limit (%)						
Lower explosive limit (%)						
Density (g/cm³)						
Relative density (g/cm ³)						
Bulk density (g/cm ³)						
Critical density (g/cm ³)						
?ow)						
e (°C)						
ure (°C) ଧ						
Viscosity, dynamic (poiseuille)						
Viscosity, cinematic (cm ³ /s)						
losive properties						
dising properties						
	Upper explosive limit (%) Lower explosive limit (%) Density (g/cm ³) Relative density (g/cm ³) Bulk density (g/cm ³) Critical density (g/cm ³) Critical density (g/cm ³) critical density (g/cm ³) Viscosity, dynamic (poiseuille) Viscosity, dynamic (poiseuille) Viscosity, cinematic (cm ³ /s) losive properties	Upper explosive limit (%) Lower explosive limit (%) Density (g/cm ³) Relative density (g/cm ³) Bulk density (g/cm ³) Critical	Upper explosive limit (%) Lower explosive limit (%) Lower explosive limit (%) Density (g/cm ³) Relative density (g/cm ³) Bulk density (g/cm ³) Critical d	Upper explosive limit (%) Lower explosive limit (%) Lower explosive limit (%) Density (g/cm ³) Relative density (g/cm ³) Bulk density (g/cm ³) Critical density	Upper explosive limit (%) Image: Constraint of the second se	Upper explosive limit (%) Image: Construction of the second of the sec

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

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 8 of 12, Revision date: 28/11/2023

• 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

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)
 - Germ cell mutagenicity:

Animal data:

Assessment / Classification:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 9 of 12, Revision date: 28/11/2023

• 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

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 <u>Mixtures</u> No toxicological information is available for the mixture itself

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 10 of 12, Revision date: 28/11/2023

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):

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. ;

Other disposal recommendations:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 11 of 12, Revision date: 28/11/2023

Additional information:

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 packing provisions for ADR/RID:	Special Provisions for ADR/RID: Excepted Quantities for ADR/RID:
Mixed packing provisions:	Portable tanks and bulk containers Instructions:
Portable tanks and bulk containers Special Provisi	ons:
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, unload	ing and handling:
Special Provisions for carriage Operation:	
Hazard identification No:	Transport category (Tunnel restriction code):
<u>Sea transport (IMDG)</u>	
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:	Equipment required.
Provisions concerning carriage:	Number of blue cones/lights:
Remark:	Number of blac cones, ignes.
<u> Air transport (ICAO-TI / IATA-DGR)</u>	
Subsidiary risk for IATA:	Excepted quantity for IATA:
Passenger and Cargo Aircraft Limited Quantities P	
Passenger and Cargo Aircraft Limited Quantities N	-
Passenger and Cargo Aircraft Packaging Instructio	
Passenger and Cargo Aircraft Maximal Net Quanti	ty :
Cargo Aircraft only Packaging Instructions :	
Cargo Aircraft only Maximal Net Quantity :	
ERG code:	Special Provisions for IATA:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: HTRF P-T prot. - Detect. Buf. 50 mL Version: US, Page 12 of 12, Revision date: 28/11/2023

SECTION 15 : REGULATORY INFORMATION

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

15.2 Chemical Safety Assessment:

For the following substances of this mixture a chemical safety assessment has been carried out :

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:16/10/2023 Modifications:

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 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

