

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

Trade name: HTRF BAD p-S112 kit - 10K pts / 64BADPEH

Version: KIT, Page 1 of 1, Revision date: 06/10/2023

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 | pH | Color | Physical state |
|--|-----------|-------------|----|-----------|----------------|
| HTRF BAD p-S112 kit - 10K pts d2 antibody | | 1 | 7 | Blue | Liquid |
| HTRF BAD p-S112 kit - 10K pts Eu Cryptate antibody | | 1 | 7 | Colorless | Liquid |
| HTRF BAD p-S112 kit - Ctrl lysate | 64BADTDA | 2 | 7 | Colorless | Liquid |
| HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL | 64KL3FDF | 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: HTRF BAD p-S112 kit - Ctrl lysate 64BADTDA

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

1.1 Product identifier:

Designation / Trade name: HTRF BAD p-S112 kit - Ctrl lysate 64BADTDA

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 BAD p-S112 kit - Ctrl lysate 64BADTDA

Substances contained in this product:

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

Designation / Trade name: HTRF BAD p-S112 kit - Ctrl lysate 64BADTDA

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

2.3 Other hazards

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

Adverse human health effects:

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

Designation / Trade name: HTRF BAD p-S112 kit - Ctrl lysate 64BADTDA

Version: US, Page 3 of 12, Revision date: 07/09/2023

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 | < 1% | | |

Additional information:

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

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

General information: Do not leave affected person unattended. ;

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

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

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

Following ingestion: Do NOT induce vomiting. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date. ;

Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

5.3 Advice for fire-fighters

Wear Protective clothing. ;

Additional information:

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

Designation / Trade name: HTRF BAD p-S112 kit - Ctrl lysate 64BADTDA

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures*

Emergency procedures: Provide adequate ventilation. ;

6.2 *Environmental precautions*

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

6.3 *Methods and material for containment and cleaning up*

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

Other information:

6.4 *Reference to other sections*

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene : Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

8.1.1 Occupational exposure limits:

- OSHA (USA)

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

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8.1.2 DNEL/PNEC-values:

- DNEL worker

- DNEL consumer

- PNEC

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

Appearance

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

| | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|--|---------------------------------------|-----------------------|--------|------------------|----------------|--------|
| pH | 7 | | | | | |
| Melting point (°C) | | | | | | |
| Freezing point (°C) | | | | | | |
| Initial boiling point/boiling range (°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) | | | | | | |
| Densities | Density (g/cm ³) | | | | | |
| | Relative density (g/cm ³) | | | | | |

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

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| | | | | | | | |
|---|---|--|--|--|--|--|--|
| | Bulk density (g/cm ³) | | | | | | |
| | Critical density (g/cm ³) | | | | | | |
| Solubility (Type :) (g/L) | | | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | | | | | | |
| Auto-ignition temperature (°C) | | | | | | | |
| Decomposition temperature (°C) Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | | |
| | Viscosity, cinematic (cm ² /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

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

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

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

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Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

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

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

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

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (carcinogenicity, 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

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

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Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

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

Animal data:

Other information:

- STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

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

12.1 **Aquatic toxicity:**

Acute (short-term) fish toxicity

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

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| Substance | EC-No. | CAS-No | LC50 (mg/L) | EC50 (mg/L) | Test duration | Species | Result/Evaluation | Method | Remark | General Remark |
|-----------|--------|-----------|-------------|-------------|---------------|--------------------------------------|-------------------|--------|--------|----------------|
| 9002-93-1 | | 9002-93-1 | 8,9 | | 96 | Pimephales promelas (fathead minnow) | | | | |

Chronic (long-term) fish toxicity

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

Acute (short-term) toxicity to crustacea

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

Chronic (long-term) toxicity to crustacea

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

Acute (short-term) toxicity to algae and cyanobacteria

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

Toxicity to microorganisms and other aquatic plants / organisms

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

Assessment / Classification:

12.2 Persistence and degradability

Biodegradation:

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

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

Designation / Trade name: HTRF BAD p-S112 kit - Ctrl lysate 64BADTDA

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Abiotic Degradation:

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

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

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

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation. ;

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) | |

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

Designation / Trade name: HTRF BAD p-S112 kit - Ctrl lysate 64BADTDA

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| | |
|---------------|--|
| Packing group | |
|---------------|--|

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

Land transport (ADR/RID)

| | |
|--|--|
| Classification code ADR: | Special Provisions for ADR/RID: |
| 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 Provisions: | |
| ADR Tank Code: | ADR Tank special provisions: |
| Vehicle for tank carriage: | Special provisions for carriage Packages: |
| Special provisions for carriage Bulk: | |
| Special provisions for carriage for loading, unloading and handling: | |
| Special Provisions for carriage Operation: | |
| Hazard identification No: | Transport category (Tunnel restriction code): |

Sea transport (IMDG)

| | |
|--------------------------------|-----------------------------------|
| Marine Pollutant: | Subsidiary risk(s) for IMDG: |
| Packing provisions for IMDG: | Limited quantities for IMDG: |
| Packing instructions for IMDG: | IBC Instructions: |
| IBC Provisions: | IMO tank instructions: |
| UN tank instructions: | Tanks and bulk Provisions: |
| EmS : | Stowage and segregation for IMDG: |
| Properties and observations: | |

Inland waterway transport (ADN)

| | |
|--|------------------------------|
| Classification Code ADN: | Special Provisions ADN: |
| Limited quantities ADN: | Excepted quantities ADN: |
| Carriage permitted: | Equipment required: |
| Provisions concerning loading and unloading: | |
| Provisions concerning carriage: | Number of blue cones/lights: |
| Remark: | |

Air transport (ICAO-TI / IATA-DGR)

| | |
|--|------------------------------|
| Subsidiary risk for IATA: | Excepted quantity for IATA: |
| Passenger and Cargo Aircraft Limited Quantities Packing Instructions: | |
| Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity : | |
| Passenger and Cargo Aircraft Packaging Instructions : | |
| Passenger and Cargo Aircraft Maximal Net Quantity : | |
| Cargo Aircraft only Packaging Instructions : | |
| Cargo Aircraft only Maximal Net Quantity : | |
| ERG code: | Special Provisions for IATA: |

SECTION 15 : REGULATORY INFORMATION

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

15.2 Chemical Safety Assessment:

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

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

Designation / Trade name: HTRF BAD p-S112 kit - Ctrl lysate 64BADTDA

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SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:06/09/2023

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

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: 06/10/2023

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 64KB1AAC

CAS No.:

Index No:

EC No:

REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only ;

Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses. ;

1.3 Details of the supplier of the safety data sheet:

Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA -

Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone : +33 4 66 79 67 05 - Fax : +33 4 66 79 67 50

E-Mail (competent person):  codolet.sds@revvity.com

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

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(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

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Hazard pictograms

GHS07-exclam

Signal word:

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) $\geq 0.1\%$ 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

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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 |
|----------------------------------|------------|----------|-----------|--|-------------------|-----|----------|
| disodium dihydrogenpyrophosphate | 7758-16-9 | | 231-835-0 | Serious eye damage/eye irritation - Eye Irrit. 2 - H319 | | | |
| 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 | | | |
| β-Glycerophosphate | 13408-09-8 | | | | | | |

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

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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*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene : Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

8.1.1 Occupational exposure limits:

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

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

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- OSHA (USA)

| Source : Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000 | | | | | | |
|--|-----------|------------|--|--|--|--|
| Substance | EC-No. | CAS-No | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm) | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m3) | OSHA Permissible Exposure Limit (PEL) STEL (ppm) | OSHA Permissible Exposure Limit (PEL) STEL (mg/m3) |
| 13721-39-6 / 237-287-9 | 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) |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 | | |
| 7758-16-9 / 231-835-0 | 231-835-0 | 7758-16-9 | | |

8.1.2 DNEL/PNEC-values:

- DNEL worker

| Source : 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) | Acute – inhalation, systemic effects (mg/m3) | Long-term – inhalation, local effects (mg/m3) | Long-term – inhalation, systemic effects (mg/m3) |
| 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 – 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) |
| 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))

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| Source : | | INERIS | | | | | | | | | | | | | | | |
|------------------------|-----------|------------|--------------|---------|-------|--------------|---------|-------|----------------------|---------|-------|---------------|---------|-------|--------------|---------|-------|
| Substance | EC-No. | CAS-No | PNEC AQUATIC | | | | | | | | | PNEC Sediment | | | | | |
| | | | freshwater | | | 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) |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 | | | | | | | | | | | | | | | |
| 7758-16-9 / 231-835-0 | 231-835-0 | 7758-16-9 | | | | | | | | | | | | | | | |

| Source : | | INERIS | | | | | | | | | | | | |
|------------------------|-----------|------------|-----------|---------|-------|-----------------------------|---------|-------|----------|---------|-------|--------------------------|---------|-------|
| Substance | EC-No. | CAS-No | Others | | | | | | | | | | | |
| | | | 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 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

Appearance

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

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

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

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| | | | | | | |
|---|---|--|--|--|--|--|
| Freezing point (°C) | | | | | | |
| Initial boiling point/boiling range (°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) | | | | | | |
| Densities | Density (g/cm ³) | | | | | |
| | Relative density (g/cm ³) | | | | | |
| | Bulk density (g/cm ³) | | | | | |
| | Critical density (g/cm ³) | | | | | |
| Solubility (Type :) (g/L) | | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | | | | | |
| Auto-ignition temperature (°C) | | | | | | |
| Decomposition temperature (°C) Decomposition energy : kJ | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| | Viscosity, cinematic (cm ² /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))

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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))

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In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (carcinogenicity, 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:

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

Animal data:

Other information:

- STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

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

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Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

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

12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 Persistence and degradability

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

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

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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:

Mixed packing provisions:

Portable tanks and bulk containers Instructions:

Portable tanks and bulk containers Special Provisions:

ADR Tank Code:

ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages:

Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No:

Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant:

Subsidiary risk(s) for IMDG:

Packing provisions for IMDG:

Limited quantities for IMDG:

Packing instructions for IMDG:

IBC Instructions:

IBC Provisions:

IMO tank instructions:

UN tank instructions:

Tanks and bulk Provisions:

EmS :

Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

Classification Code ADN:

Special Provisions ADN:

Limited quantities ADN:

Excepted quantities ADN:

Carriage permitted:

Equipment required:

Provisions concerning loading and unloading:

Provisions concerning carriage:

Number of blue cones/lights:

Remark:

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

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Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions:

Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity :

Passenger and Cargo Aircraft Packaging Instructions :

Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions :

Cargo Aircraft only Maximal Net Quantity :

ERG code: Special Provisions for IATA:

SECTION 15 : REGULATORY INFORMATION

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

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:09/09/2023

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):

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

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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.3 (4X) 130 mL 64KL3FDF

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 3 - H412 | Aquatic Chronic 3 | H412 | P273 P501 |

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.3 (4X) 130 mL 64KL3FDF

Substances contained in this product:

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

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

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

2.3 Other hazards

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

Adverse human health effects:

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

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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 |
|---|-----------|----------|-----------|--|-------------------|-----|----------|
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid | 7365-45-9 | | 230-907-9 | | < 10% | | |
| 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 | < 1% | | |

Additional information:

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

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

General information: Do not leave affected person unattended. ;

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

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

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

Following ingestion: Do NOT induce vomiting. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date. ;

Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media:

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

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

Designation / Trade name: HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL 64KL3FDF

Version: US, Page 4 of 13, Revision date: 07/09/2023

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*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene: Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

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

Designation / Trade name: HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL 64KL3FDF

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Preliminary remark:

8.1.1 Occupational exposure limits:

- OSHA (USA)

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

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

8.1.2 DNEL/PNEC-values:

- DNEL worker

| Source : | | 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) | 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 | | | | | 23.5-23.5 | | |

- DNEL consumer

| Source : | | 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) | 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 | | | | | | | |

- PNEC

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

Designation / Trade name: HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL 64KL3FDF

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

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

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

Appearance

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

| | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|--|-------|-----------------------|--------|------------------|----------------|--------|
| pH | 7 | | | | | |
| Melting point (°C) | | | | | | |
| Freezing point (°C) | | | | | | |
| Initial boiling point/boiling range (°C) | | | | | | |
| Flash point (°C) | | | | | | |
| Evaporation rate (kg/m ² /h) | | | | | | |
| Flammability (type :) (%) | | | | | | |

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

Designation / Trade name: HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL 64KL3FDF

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| | | | | | | |
|--|---|--|--|--|--|--|
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | | | | | |
| | Lower explosive limit (%) | | | | | |
| Vapour pressure (kPa) | | | | | | |
| Vapour density (g/cm ³) | | | | | | |
| Densities | Density (g/cm ³) | | | | | |
| | Relative density (g/cm ³) | | | | | |
| | Bulk density (g/cm ³) | | | | | |
| | Critical density (g/cm ³) | | | | | |
| Solubility (Type :) (g/L) | | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | | | | | |
| Auto-ignition temperature (°C) | | | | | | |
| Decomposition temperature (°C) | | | | | | |
| Decomposition energy : kJ | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| | Viscosity, cinematic (cm ² /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

Substances

- Acute toxicity

Animal data:

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

Designation / Trade name: HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL 64KL3FDF

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Acute oral toxicity:

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

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

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

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

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

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - Germ cell mutagenicity:

Animal data:

Assessment / Classification:

- Carcinogenicity

Practical experience / human evidence:

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

Designation / Trade name: HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL 64KL3FDF

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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)**
 - STOT SE 1 and 2

Animal data:

Other information:

- STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for

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

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mixture classification has to be used (calculation method)
data of the ingredients are shown.

in this case the toxicological

12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

| Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012 | | | | | | | | | | |
|--|--------|-----------|-------------|-------------|---------------|--------------------------------------|-------------------|--------|--------|----------------|
| Substance | EC-No. | CAS-No | LC50 (mg/L) | EC50 (mg/L) | Test duration | Species | Result/Evaluation | Method | Remark | General Remark |
| 9002-93-1 | | 9002-93-1 | 8,9 | | 96 | Pimephales promelas (fathead minnow) | | | | |

Chronic (long-term) fish toxicity

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

Acute (short-term) toxicity to crustacea

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

Chronic (long-term) toxicity to crustacea

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

Acute (short-term) toxicity to algae and cyanobacteria

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

Toxicity to microorganisms and other aquatic plants / organisms

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

Assessment / Classification:

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

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12.2 Persistence and degradability

Biodegradation:

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

Abiotic Degradation:

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

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

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

12.4 Mobility in soil

| Source : | | | | | | | | | | | |
|-----------|-------|-----------|--------------|----------------|---|---------|----------------------------|-----------------------------------|---------------------------------|--------|--------|
| Substance | EC n° | CAS n° | Distribution | Transport type | Henry's law constant (Pa.m ³ /mol) | Log KOC | Half-life time in soil (j) | Half-life time in fresh water (j) | Half-life time in sea water (j) | Method | Remark |
| 9002-93-1 | | 9002-93-1 | | | | | | | | | |

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation. ;

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

Designation / Trade name: HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL 64KL3FDF

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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: | |
| Mixed packing provisions: | Portable tanks and bulk containers Instructions: |
| Portable tanks and bulk containers Special Provisions: | |
| ADR Tank Code: | ADR Tank special provisions: |
| Vehicle for tank carriage: | Special provisions for carriage Packages: |
| Special provisions for carriage Bulk: | |
| Special provisions for carriage for loading, unloading and handling: | |
| Special Provisions for carriage Operation: | |
| Hazard identification No: | Transport category (Tunnel restriction code): |

Sea transport (IMDG)

| | |
|--------------------------------|-----------------------------------|
| Marine Pollutant: | Subsidiary risk(s) for IMDG: |
| Packing provisions for IMDG: | Limited quantities for IMDG: |
| Packing instructions for IMDG: | IBC Instructions: |
| IBC Provisions: | IMO tank instructions: |
| UN tank instructions: | Tanks and bulk Provisions: |
| EmS : | Stowage and segregation for IMDG: |
| Properties and observations: | |

Inland waterway transport (ADN)

| | |
|--|------------------------------|
| Classification Code ADN: | Special Provisions ADN: |
| Limited quantities ADN: | Excepted quantities ADN: |
| Carriage permitted: | Equipment required: |
| Provisions concerning loading and unloading: | |
| Provisions concerning carriage: | Number of blue cones/lights: |
| Remark: | |

Air transport (ICAO-TI / IATA-DGR)

| | |
|--|-----------------------------|
| Subsidiary risk for IATA: | Excepted quantity for IATA: |
| Passenger and Cargo Aircraft Limited Quantities Packing Instructions: | |
| Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity : | |
| Passenger and Cargo Aircraft Packaging Instructions : | |
| Passenger and Cargo Aircraft Maximal Net Quantity : | |
| Cargo Aircraft only Packaging Instructions : | |

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

Designation / Trade name: HTRF P-T prot. - Lysis Buf.3 (4X) 130 mL 64KL3FDF

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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:06/09/2023

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

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts d2 antibody

Version: US, Page 1 of 12, Revision date: 06/10/2023

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

1.1 Product identifier:

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts d2 antibody

CAS No.:

Index No:

EC No:

REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only ;

Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses. ;

1.3 Details of the supplier of the safety data sheet:

Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA -

Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone : +33 4 66 79 67 05 - Fax : +33 4 66 79 67 50

E-Mail (competent person):  codolet.sds@revvity.com

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

| Classification 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 BAD p-S112 kit - 10K pts d2 antibody

Substances contained in this product:

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts d2 antibody

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ 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 BAD p-S112 kit - 10K pts d2 antibody

Version: US, Page 3 of 12, Revision date: 06/10/2023

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 |
|--|-----------|----------|-----------|--|-------------------|-----|----------|
| 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. ;

Additional information:

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts d2 antibody

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures*

Emergency procedures: Provide adequate ventilation. ;

6.2 *Environmental precautions*

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

6.3 *Methods and material for containment and cleaning up*

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

Other information:

6.4 *Reference to other sections*

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene : Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

8.1.1 Occupational exposure limits:

- OSHA (USA)

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts d2 antibody

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

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

8.1.2 DNEL/PNEC-values:

- DNEL worker

| Source : | | 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) | 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 | | | | | 23.5-23.5 | | |

- DNEL consumer

| Source : | | 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) | 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 | | | | | | | |

- PNEC

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

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

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts d2 antibody

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

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

Appearance

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

| | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---------------------------------------|-----------------------|--------|------------------|----------------|--------|
| pH | 7 | | | | | |
| Melting point (°C) | | | | | | |
| Freezing point (°C) | | | | | | |
| Initial boiling point/boiling range (°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) | | | | | | |
| Densities | Density (g/cm ³) | | | | | |
| | Relative density (g/cm ³) | | | | | |
| | Bulk density (g/cm ³) | | | | | |
| | Critical density (g/cm ³) | | | | | |
| Solubility (Type :) (g/L) | | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | | | | | |
| Auto-ignition temperature (°C) | | | | | | |

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

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| | | | | | | |
|--------------------------------|---|--|--|--|--|--|
| Decomposition temperature (°C) | | | | | | |
| Decomposition energy : kj | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| | Viscosity, cinematic (cm ² /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

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

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

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- **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 (carcinogenicity, 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:

- **Specific target organ toxicity (single exposure)**

- STOT SE 1 and 2

Animal data:

Other information:

- STOT SE 3

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

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Practical experience / human evidence:

Other information:

Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

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

12.1 **Aquatic toxicity:**

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 **Persistence and degradability**

Biodegradation:

Abiotic Degradation:

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

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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: | |
| Mixed packing provisions: | Portable tanks and bulk containers Instructions: |
| Portable tanks and bulk containers Special Provisions: | |
| ADR Tank Code: | ADR Tank special provisions: |
| Vehicle for tank carriage: | Special provisions for carriage Packages: |
| Special provisions for carriage Bulk: | |
| Special provisions for carriage for loading, unloading and handling: | |
| Special Provisions for carriage Operation: | |
| Hazard identification No: | Transport category (Tunnel restriction code): |

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

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Sea transport (IMDG)

| | |
|--------------------------------|-----------------------------------|
| Marine Pollutant: | Subsidiary risk(s) for IMDG: |
| Packing provisions for IMDG: | Limited quantities for IMDG: |
| Packing instructions for IMDG: | IBC Instructions: |
| IBC Provisions: | IMO tank instructions: |
| UN tank instructions: | Tanks and bulk Provisions: |
| EmS : | Stowage and segregation for IMDG: |
| Properties and observations: | |

Inland waterway transport (ADN)

| | |
|--|------------------------------|
| Classification Code ADN: | Special Provisions ADN: |
| Limited quantities ADN: | Excepted quantities ADN: |
| Carriage permitted: | Equipment required: |
| Provisions concerning loading and unloading: | |
| Provisions concerning carriage: | Number of blue cones/lights: |
| Remark: | |

Air transport (ICAO-TI / IATA-DGR)

| | |
|--|------------------------------|
| Subsidiary risk for IATA: | Excepted quantity for IATA: |
| Passenger and Cargo Aircraft Limited Quantities Packing Instructions: | |
| Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity : | |
| Passenger and Cargo Aircraft Packaging Instructions : | |
| Passenger and Cargo Aircraft Maximal Net Quantity : | |
| Cargo Aircraft only Packaging Instructions : | |
| Cargo Aircraft only Maximal Net Quantity : | |
| ERG code: | Special Provisions for IATA: |

SECTION 15 : REGULATORY INFORMATION

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

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:

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))

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

1.1 Product identifier:

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts Eu Cryptate antibody

CAS No.:

Index No:

EC No:

REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only ;

Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses. ;

1.3 Details of the supplier of the safety data sheet:

Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA -

Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone : +33 4 66 79 67 05 - Fax : +33 4 66 79 67 50

E-Mail (competent person):  codolet.sds@revvity.com

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

| Classification 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 BAD p-S112 kit - 10K pts Eu Cryptate antibody

Substances contained in this product:

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

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ 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))

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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 |
|--|-----------|----------|-----------|--|-------------------|-----|----------|
| 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. ;

Additional information:

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

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures*

Emergency procedures: Provide adequate ventilation. ;

6.2 *Environmental precautions*

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

6.3 *Methods and material for containment and cleaning up*

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

Other information:

6.4 *Reference to other sections*

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene : Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

8.1.1 Occupational exposure limits:

- OSHA (USA)

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

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

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

8.1.2 DNEL/PNEC-values:

- DNEL worker

| Source : | | 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) | 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 | | | | | 23.5-23.5 | | |

- DNEL consumer

| Source : | | 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) | 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 | | | | | | | |

- PNEC

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

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

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

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

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

Appearance

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

| | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---------------------------------------|-----------------------|--------|------------------|----------------|--------|
| pH | 7 | | | | | |
| Melting point (°C) | | | | | | |
| Freezing point (°C) | | | | | | |
| Initial boiling point/boiling range (°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) | | | | | | |
| Densities | Density (g/cm ³) | | | | | |
| | Relative density (g/cm ³) | | | | | |
| | Bulk density (g/cm ³) | | | | | |
| | Critical density (g/cm ³) | | | | | |
| Solubility (Type :) (g/L) | | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | | | | | |
| Auto-ignition temperature (°C) | | | | | | |

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

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| | | | | | | |
|--------------------------------|---|--|--|--|--|--|
| Decomposition temperature (°C) | | | | | | |
| Decomposition energy : kj | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| | Viscosity, cinematic (cm ² /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

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts Eu Cryptate antibody

Version: US, Page 8 of 12, Revision date: 06/10/2023

- **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 (carcinogenicity, 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:

- **Specific target organ toxicity (single exposure)**

- STOT SE 1 and 2

Animal data:

Other information:

- STOT SE 3

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts Eu Cryptate antibody

Version: US, Page 9 of 12, Revision date: 06/10/2023

Practical experience / human evidence:

Other information:

Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

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

12.1 **Aquatic toxicity:**

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 **Persistence and degradability**

Biodegradation:

Abiotic Degradation:

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts Eu Cryptate antibody

Version: US, Page 10 of 12, Revision date: 06/10/2023

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:

Mixed packing provisions:

Portable tanks and bulk containers Instructions:

Portable tanks and bulk containers Special Provisions:

ADR Tank Code:

ADR Tank special provisions:

Vehicle for tank carriage:

Special provisions for carriage Packages:

Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No:

Transport category (Tunnel restriction code):

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

Designation / Trade name: HTRF BAD p-S112 kit - 10K pts Eu Cryptate antibody

Version: US, Page 11 of 12, Revision date: 06/10/2023

Sea transport (IMDG)

| | |
|--------------------------------|-----------------------------------|
| Marine Pollutant: | Subsidiary risk(s) for IMDG: |
| Packing provisions for IMDG: | Limited quantities for IMDG: |
| Packing instructions for IMDG: | IBC Instructions: |
| IBC Provisions: | IMO tank instructions: |
| UN tank instructions: | Tanks and bulk Provisions: |
| EmS : | Stowage and segregation for IMDG: |
| Properties and observations: | |

Inland waterway transport (ADN)

| | |
|--|------------------------------|
| Classification Code ADN: | Special Provisions ADN: |
| Limited quantities ADN: | Excepted quantities ADN: |
| Carriage permitted: | Equipment required: |
| Provisions concerning loading and unloading: | |
| Provisions concerning carriage: | Number of blue cones/lights: |
| Remark: | |

Air transport (ICAO-TI / IATA-DGR)

| | |
|--|------------------------------|
| Subsidiary risk for IATA: | Excepted quantity for IATA: |
| Passenger and Cargo Aircraft Limited Quantities Packing Instructions: | |
| Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity : | |
| Passenger and Cargo Aircraft Packaging Instructions : | |
| Passenger and Cargo Aircraft Maximal Net Quantity : | |
| Cargo Aircraft only Packaging Instructions : | |
| Cargo Aircraft only Maximal Net Quantity : | |
| ERG code: | Special Provisions for IATA: |

SECTION 15 : REGULATORY INFORMATION

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

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:

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: HTRF BAD p-S112 kit - 10K pts Eu Cryptate antibody

Version: US, Page 12 of 12, Revision date: 06/10/2023

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 1 of 12, Revision date: 06/10/2023

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:

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 2 of 12, Revision date: 06/10/2023

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) $\geq 0.1\%$ 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. - Detect. Buf. 50 mL

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

| Substance name | CAS n° | Index n° | EC n° | Classification 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 | | | |
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid | 7365-45-9 | | 230-907-9 | | | | |

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

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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. ;

Advice on general occupational hygiene : Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

8.1.1 Occupational exposure limits:

- OSHA (USA)

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

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

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

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

Appearance

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

| | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|--|-------|-----------------------|--------|------------------|----------------|--------|
| pH | 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

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| | | | | | | |
|---|---|--|--|--|--|--|
| 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) | | | | | | |
| Densities | Density (g/cm ³) | | | | | |
| | Relative density (g/cm ³) | | | | | |
| | Bulk density (g/cm ³) | | | | | |
| | Critical density (g/cm ³) | | | | | |
| Solubility (Type :) (g/L) | | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | | | | | |
| Auto-ignition temperature (°C) | | | | | | |
| Decomposition temperature (°C) Decomposition energy : kJ | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| | Viscosity, cinematic (cm ² /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

Substances

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 8 of 12, Revision date: 06/10/2023

- **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 (carcinogenicity, 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: 06/10/2023

- 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)**
 - STOT SE 1 and 2

Animal data:

Other information:

- STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

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: 06/10/2023

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: 06/10/2023

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: | 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 Provisions: | |
| ADR Tank Code: | ADR Tank special provisions: |
| Vehicle for tank carriage: | Special provisions for carriage Packages: |
| Special provisions for carriage Bulk: | |
| Special provisions for carriage for loading, unloading and handling: | |
| Special Provisions for carriage Operation: | |
| Hazard identification No: | Transport category (Tunnel restriction code): |

Sea transport (IMDG)

| | |
|--------------------------------|-----------------------------------|
| Marine Pollutant: | Subsidiary risk(s) for IMDG: |
| Packing provisions for IMDG: | Limited quantities for IMDG: |
| Packing instructions for IMDG: | IBC Instructions: |
| IBC Provisions: | IMO tank instructions: |
| UN tank instructions: | Tanks and bulk Provisions: |
| EmS : | Stowage and segregation for IMDG: |
| Properties and observations: | |

Inland waterway transport (ADN)

| | |
|--|------------------------------|
| Classification Code ADN: | Special Provisions ADN: |
| Limited quantities ADN: | Excepted quantities ADN: |
| Carriage permitted: | Equipment required: |
| Provisions concerning loading and unloading: | |
| Provisions concerning carriage: | Number of blue cones/lights: |
| Remark: | |

Air transport (ICAO-TI / IATA-DGR)

| | |
|--|------------------------------|
| Subsidiary risk for IATA: | Excepted quantity for IATA: |
| Passenger and Cargo Aircraft Limited Quantities Packing Instructions: | |
| Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity : | |
| Passenger and Cargo Aircraft Packaging Instructions : | |
| Passenger and Cargo Aircraft Maximal Net Quantity : | |
| Cargo Aircraft only Packaging Instructions : | |
| Cargo Aircraft only Maximal Net Quantity : | |
| ERG code: | Special Provisions for IATA: |

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: 06/10/2023

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:09/09/2023

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):