

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

Trade name: HTRF (h/m) SMAD4 Total Kit - 500 pts / 64SMAD4TPEG

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

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

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

Nomenclature of the product

| Description | Component | Nb of vials | pH | Color | Physical state |
|---|-------------|-------------|----|-----------|----------------|
| HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody | 64SMAD4TTDA | 1 | 7 | Blue | Liquid |
| HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody | | 1 | 7 | Colorless | Liquid |
| HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. | | 1 | 7 | Colorless | Liquid |
| HTRF P-T prot. - Lysis Buf.4 (4X) 2 mL | | 4 | 7 | Colorless | Liquid |
| HTRF P-T prot. - Block. reag.(100X) 0.3 mL | | 1 | - | Colorless | Liquid |
| HTRF P-T prot. - Detect. Buf. 2 mL | | 2 | 7 | Colorless | Liquid |

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

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

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

1.1 Product identifier:

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

CAS No.:

Index No:

EC No:

REACH No:

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

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

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

1.3 Details of the supplier of the safety data sheet:

Supplier:

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

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

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

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

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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

2.2 Label elements

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

Product identifier:

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Substances contained in this product:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 2 of 14, Revision date: 07/09/2023

Hazard pictograms

Signal word:

Hazard and precautionary statements:

2.3 Other hazards

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

Adverse human health effects and symptoms:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 3 of 14, 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 according Regulation (EC) No. 1272 [CLP] | Concentration (%) | SCL | M-factor |
|--|-----------|----------|-----------|--|-------------------|-----|----------|
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid | 7365-45-9 | | 230-907-9 | | < 3% | | |
| Poly(oxy-1,2-ethanediyl), 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 Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 4 of 14, 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. ;

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures*

Emergency procedures: Provide adequate ventilation. ;

6.2 *Environmental precautions*

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

6.3 *Methods and material for containment and cleaning up*

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

Other information:

6.4 *Reference to other sections*

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 5 of 14, Revision date: 07/09/2023

8.1.1 Occupational exposure limits:

- France

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

- Spain

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

- Germany

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

- Italia
- Greece
- UK
- OSHA (USA)

| | |
|----------|---|
| Source : | Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000 |
|----------|---|

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 6 of 14, Revision date: 07/09/2023

| Substance | EC-No. | CAS-No | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm) | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m3) | OSHA Permissible Exposure Limit (PEL) STEL (ppm) | OSHA Permissible Exposure Limit (PEL) STEL (mg/m3) |
|-----------------------|-----------|-----------|--|--|--|--|
| 7365-45-9 / 230-907-9 | 230-907-9 | 7365-45-9 | | | | |

8.1.2 Biological limit values (Germany):

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

8.1.3 Exposure limits at intended use (Germany):

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

8.1.4 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 | | | | | | | |

DNEL remark:

- PNEC

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

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA
 Version: UK, Page 7 of 14, Revision date: 07/09/2023

| | | | 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 | | | | | | | | | | | | | | | |

PNEC remark:
 Control parameters remark:

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

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:

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 (%) | | | | | |

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 8 of 14, Revision date: 07/09/2023

| | | | | | | |
|---|---|--|--|--|--|--|
| 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) | | | | | |
| Oxidising properties | | | | | | |
| Explosive properties | | | | | | |

9.2 Other information:

No other relevant data available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:

Does not decompose when used for intended uses. ;

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

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

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 9 of 14, Revision date: 07/09/2023

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

Practical experience / human evidence:

Animal data:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 10 of 14, Revision date: 07/09/2023

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

| 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 |

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 11 of 14, Revision date: 07/09/2023

| | | | | | | | | | |
|-----------|--|-----------|-----|----|--------------------------------------|--|--|--|--|
| 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 Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 12 of 14, Revision date: 07/09/2023

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. ;

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

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

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

Version: UK, Page 13 of 14, Revision date: 07/09/2023

| | |
|---------------|--|
| 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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations: 9002-93-1

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - Ctrl Lys. 64SMAD4TTDA

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

Restrictions on use:

SVHC :9002-93-1

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

Not relevant

National regulations

15.2 Chemical Safety Assessment:

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

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:06/09/2023

Modifications:

16.2 Other informations

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

See SECTION 2.1 (classification).

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

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

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

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

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

1.1 Product identifier:

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

CAS No.:

Index No:

EC No:

REACH No:

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

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

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

1.3 Details of the supplier of the safety data sheet:

Supplier:

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

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

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

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

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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

2.2 Label elements

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

Product identifier:

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

Substances contained in this product:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

Version: UK, Page 2 of 13, Revision date: 07/09/2023

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 and symptoms:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

Version: UK, Page 3 of 13, 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 according Regulation (EC) No. 1272 [CLP] | Concentration (%) | SCL | M-factor |
|--|-----------|----------|-----------|---|-------------------|-----|----------|
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid | 7365-45-9 | | 230-907-9 | | < 3% | | |

Additional information:

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

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

General information: Do not leave affected person unattended. ;

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

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

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

Following ingestion: Do NOT induce vomiting. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date. ;

Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

5.3 Advice for fire-fighters

Wear Protective clothing. ;

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

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

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation. ;

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

Other information:

6.4 Reference to other sections

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 Specific end uses:

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Preliminary remark:

8.1.1 Occupational exposure limits:

- France

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

Version: UK, Page 5 of 13, Revision date: 07/09/2023

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

- Spain

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

- Germany

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

- Italia
- Greece
- UK
- OSHA (USA)

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

8.1.2 Biological limit values (Germany):

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody
 Version: UK, Page 6 of 13, Revision date: 07/09/2023

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

8.1.3 Exposure limits at intended use (Germany):

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

8.1.4 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 | | | | | | | |

DNEL remark:

- 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 Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody
Version: UK, Page 7 of 13, Revision date: 07/09/2023

| 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 | | | | | | | | | | | | |

PNEC remark:

Control parameters remark:

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

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:

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 Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

Version: UK, Page 8 of 13, Revision date: 07/09/2023

| | | | | | | |
|--------------------------------|---|--|--|--|--|--|
| Decomposition temperature (°C) | | | | | | |
| Decomposition energy : kJ | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| | Viscosity, cinematic (cm ² /s) | | | | | |
| Oxidising properties | | | | | | |
| Explosive properties | | | | | | |

9.2 Other information:

No other relevant data available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:

Does not decompose when used for intended uses. ;

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

Version: UK, Page 9 of 13, Revision date: 07/09/2023

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (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)**

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

Version: UK, Page 10 of 13, Revision date: 07/09/2023

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

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

12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 Persistence and degradability

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody
 Version: UK, Page 11 of 13, Revision date: 07/09/2023

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

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

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

Land transport (ADR/RID)

| | |
|--|---|
| Classification code ADR: | Special Provisions for ADR/RID: |
| 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: | |

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

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

Inland waterway transport (ADN)

Classification Code ADN:

Limited quantities ADN:

Carriage permitted:

Provisions concerning loading and unloading:

Number of blue cones/lights:

Special Provisions ADN:

Excepted quantities ADN:

Equipment required:

Provisions concerning carriage:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA:

Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions:

Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity :

Passenger and Cargo Aircraft Packaging Instructions :

Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions :

Cargo Aircraft only Maximal Net Quantity :

ERG code:

Special Provisions for IATA:

SECTION 15 : REGULATORY INFORMATION

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC :

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

Not relevant

National regulations

15.2 Chemical Safety Assessment:

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

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:06/09/2023

Modifications:

16.2 Other informations

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts d2 antibody

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

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

See SECTION 2.1 (classification).

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

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

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

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

1.1 Product identifier:

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

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

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

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

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

1.3 Details of the supplier of the safety data sheet:

Supplier:

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

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

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

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

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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

2.2 Label elements

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

Product identifier:

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Substances contained in this product:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Version: UK, Page 2 of 13, Revision date: 07/09/2023

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 and symptoms:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Version: UK, Page 3 of 13, 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 according Regulation (EC) No. 1272 [CLP] | Concentration (%) | SCL | M-factor |
|--|-----------|----------|-----------|---|-------------------|-----|----------|
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid | 7365-45-9 | | 230-907-9 | | < 3% | | |

Additional information:

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

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

General information:Do not leave affected person unattended. ;

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

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

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

Following ingestion:Do NOT induce vomiting. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:No known symptoms to date. ;

Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:/

5.3 Advice for fire-fighters

Wear Protective clothing. ;

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

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

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation. ;

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

Other information:

6.4 Reference to other sections

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 Specific end uses:

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Preliminary remark:

8.1.1 Occupational exposure limits:

- France

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Version: UK, Page 5 of 13, Revision date: 07/09/2023

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

- Spain

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

- Germany

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

- Italia
- Greece
- UK
- OSHA (USA)

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

8.1.2 Biological limit values (Germany):

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Version: UK, Page 6 of 13, Revision date: 07/09/2023

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

8.1.3 Exposure limits at intended use (Germany):

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

8.1.4 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 | | | | | | | |

DNEL remark:

- 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 Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Version: UK, Page 7 of 13, Revision date: 07/09/2023

| 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 | | | | | | | | | | | | |

PNEC remark:

Control parameters remark:

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

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:

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 Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Version: UK, Page 8 of 13, Revision date: 07/09/2023

| | | | | | | |
|--------------------------------|---|--|--|--|--|--|
| Decomposition temperature (°C) | | | | | | |
| Decomposition energy : kJ | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| | Viscosity, cinematic (cm ² /s) | | | | | |
| Oxidising properties | | | | | | |
| Explosive properties | | | | | | |

9.2 Other information:

No other relevant data available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:

Does not decompose when used for intended uses. ;

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Version: UK, Page 9 of 13, Revision date: 07/09/2023

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (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)**

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

Version: UK, Page 10 of 13, Revision date: 07/09/2023

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

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

12.1 **Aquatic toxicity:**

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 **Persistence and degradability**

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

12.3 **Bioaccumulative potential**

Bioconcentration factor (BCF):

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody
 Version: UK, Page 11 of 13, Revision date: 07/09/2023

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

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

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

Land transport (ADR/RID)

| | |
|--|---|
| Classification code ADR: | Special Provisions for ADR/RID: |
| 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: | |

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

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

Inland waterway transport (ADN)

Classification Code ADN:

Limited quantities ADN:

Carriage permitted:

Provisions concerning loading and unloading:

Number of blue cones/lights:

Special Provisions ADN:

Excepted quantities ADN:

Equipment required:

Provisions concerning carriage:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA:

Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions:

Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity :

Passenger and Cargo Aircraft Packaging Instructions :

Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions :

Cargo Aircraft only Maximal Net Quantity :

ERG code:

Special Provisions for IATA:

SECTION 15 : REGULATORY INFORMATION

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC :

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

Not relevant

National regulations

15.2 Chemical Safety Assessment:

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

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:07/09/2023

Modifications:

16.2 Other informations

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

Designation / Commercial name : HTRF (h/m) SMAD4 Total Kit - 500 pts Eu Cryptate antibody

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

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

See SECTION 2.1 (classification).

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

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

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

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

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

1.1 Product identifier:

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

CAS No.:

Index No:

EC No:

REACH No:

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

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

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

1.3 Details of the supplier of the safety data sheet:

Supplier:

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

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

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

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

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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

2.2 Label elements

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

Product identifier:

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

Substances contained in this product:

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

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

Version: UK, Page 2 of 14, Revision date: 07/09/2023

Hazard pictograms

Signal word:

Hazard and precautionary statements:

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

2.3 Other hazards

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

Adverse human health effects and symptoms:

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

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

Version: UK, Page 3 of 14, 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 according Regulation (EC) No. 1272 [CLP] | Concentration (%) | SCL | M-factor |
|--|-----------|----------|-----------|--|-------------------|-----|----------|
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid | 7365-45-9 | | 230-907-9 | | < 10% | | |
| Poly(oxy-1,2-ethanediyl), 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 Regulation (EC) No 1907/2006 (REACH)

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

Version: UK, Page 4 of 14, 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. ;

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures*

Emergency procedures: Provide adequate ventilation. ;

6.2 *Environmental precautions*

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

6.3 *Methods and material for containment and cleaning up*

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

Other information:

6.4 *Reference to other sections*

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

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

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

Version: UK, Page 5 of 14, Revision date: 07/09/2023

8.1.1 Occupational exposure limits:

- France

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

- Spain

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

- Germany

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

- Italia
- Greece
- UK
- OSHA (USA)

| Source : | | Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000 | | | | |
|----------|--|---|--|--|--|--|
| | | | | | | |

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

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

Version: UK, Page 6 of 14, Revision date: 07/09/2023

| Substance | EC-No. | CAS-No | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm) | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m3) | OSHA Permissible Exposure Limit (PEL) STEL (ppm) | OSHA Permissible Exposure Limit (PEL) STEL (mg/m3) |
|-----------------------|-----------|-----------|--|--|--|--|
| 7365-45-9 / 230-907-9 | 230-907-9 | 7365-45-9 | | | | |

8.1.2 Biological limit values (Germany):

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

8.1.3 Exposure limits at intended use (Germany):

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

8.1.4 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 | | | | | | | |

DNEL remark:

- PNEC

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

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

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

Version: UK, Page 7 of 14, Revision date: 07/09/2023

| | | | 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 | | | | | | | | | | | | | | | |

PNEC remark:

Control parameters remark:

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

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:

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 (%) | | | | | |

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

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

Version: UK, Page 8 of 14, Revision date: 07/09/2023

| | | | | | | |
|---|---|--|--|--|--|--|
| 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) | | | | | |
| Oxidising properties | | | | | | |
| Explosive properties | | | | | | |

9.2 Other information:

No other relevant data available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:

Does not decompose when used for intended uses. ;

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

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

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

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

Version: UK, Page 9 of 14, Revision date: 07/09/2023

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

Practical experience / human evidence:

Animal data:

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

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

Version: UK, Page 10 of 14, Revision date: 07/09/2023

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

| 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 |

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

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

Version: UK, Page 11 of 14, Revision date: 07/09/2023

| | | | | | | | | | |
|-----------|--|-----------|-----|----|--------------------------------------|--|--|--|--|
| 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 Regulation (EC) No 1907/2006 (REACH)

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

Version: UK, Page 12 of 14, Revision date: 07/09/2023

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. ;

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

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

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

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

Version: UK, Page 13 of 14, Revision date: 07/09/2023

| | |
|---------------|--|
| 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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations: 9002-93-1

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

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

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

Restrictions on use:

SVHC :9002-93-1

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

Not relevant

National regulations

15.2 Chemical Safety Assessment:

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

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:06/09/2023

Modifications:

16.2 Other informations

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

See SECTION 2.1 (classification).

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

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

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

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

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

1.1 Product identifier:

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

CAS No.:

Index No:

EC No:

REACH No:

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

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

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

1.3 Details of the supplier of the safety data sheet:

Supplier:

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

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

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

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

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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

2.2 Label elements

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

Product identifier:

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Substances contained in this product:

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 2 of 14, Revision date: 07/09/2023

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 and symptoms:

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 3 of 14, 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 according Regulation (EC) No. 1272 [CLP] | Concentration (%) | SCL | M-factor |
|----------------------------------|------------|----------|-----------|--|-------------------|-----|----------|
| disodium dihydrogenpyrophosphate | 7758-16-9 | | 231-835-0 | Serious eye damage/eye irritation - Eye Irrit. 2 - H319 | < 25% | | |
| trisodium tetraoxovanadate | 13721-39-6 | | 237-287-9 | Acute toxicity - Acute Tox. 4 - H302 - Oral Acute toxicity - Acute Tox. 4 - H312 - Dermal Acute toxicity - Acute Tox. 4 - H332 - Inhalation Serious eye damage/eye irritation - Eye Irrit. 2 - H319 Skin corrosion/irritation - Skin Irrit. 2 - H315 | < 3% | | |

Additional information:

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

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

General information: Do not leave affected person unattended. ;

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

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

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

Following ingestion: Do NOT induce vomiting. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date. ;

Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 4 of 14, Revision date: 07/09/2023

5.3 *Advice for fire-fighters*

Wear Protective clothing. ;

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures*

Emergency procedures: Provide adequate ventilation. ;

6.2 *Environmental precautions*

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

6.3 *Methods and material for containment and cleaning up*

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

Other information:

6.4 *Reference to other sections*

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

8.1.1 Occupational exposure limits:

- France

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 5 of 14, Revision date: 07/09/2023

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

- Spain

| Source : | | Limites de Exposition Professionnelle pour Agents Chimiques en Espagne Instituto Nacional de Seguridad e Higiene en el Trabajo June 2015 | | | | |
|------------------------|-----------|--|----------------|--------------|----------------|--------------|
| Substance | EC-No. | CAS-No | VLA-EC (mg/m3) | VLA-EC (ppm) | VLA-ED (mg/m3) | VLA-ED (ppm) |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 | | | | |
| 7758-16-9 / 231-835-0 | 231-835-0 | 7758-16-9 | | | | |

- Germany

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

- Italia
- Greece
- UK
- OSHA (USA)

| Source : | | Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000 |
|----------|--|---|
| | | |

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 6 of 14, Revision date: 07/09/2023

| 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 | | | | |

8.1.2 Biological limit values (Germany):

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

8.1.3 Exposure limits at intended use (Germany):

| Source : | TRGS 903, November 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 | | |

8.1.4 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 | | | | | | | |

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 7 of 14, Revision date: 07/09/2023

| | | | | | | | | | | | | | | | | | |
|-----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 7758-16-9 / 231-835-0 | 231-835-0 | 7758-16-9 | | | | | | | | | | | | | | | |
|-----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

DNEL remark:

- 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) | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | |

PNEC remark:

Control parameters remark:

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

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:

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 8 of 14, Revision date: 07/09/2023

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) | | | | | | |
| 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) | | | | | |
| Oxidising properties | | | | | | |
| Explosive properties | | | | | | |

9.2 Other information:

No other relevant data available

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 9 of 14, Revision date: 07/09/2023

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 |
|------------------------|--------------|---------|--------|----------------------------|--------|
| 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**

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 10 of 14, Revision date: 07/09/2023

Animal data:

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

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

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

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (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

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 11 of 14, Revision date: 07/09/2023

Animal data:

Other information:

- STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

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

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

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

12.1 **Aquatic toxicity:**

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 12 of 14, Revision date: 07/09/2023

12.2 Persistence and degradability

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

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

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

Land transport (ADR/RID)

Classification code ADR:

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:

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

Version: UK, Page 13 of 14, Revision date: 07/09/2023

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No:

Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant:

Subsidiary risk(s) for IMDG:

Packing provisions for IMDG:

Limited quantities for IMDG:

Packing instructions for IMDG:

IBC Instructions:

IBC Provisions:

IMO tank instructions:

UN tank instructions:

Tanks and bulk Provisions:

EmS :

Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

Classification Code ADN:

Special Provisions ADN:

Limited quantities ADN:

Excepted quantities ADN:

Carriage permitted:

Equipment required:

Provisions concerning loading and unloading:

Provisions concerning carriage:

Number of blue cones/lights:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA:

Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions:

Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity :

Passenger and Cargo Aircraft Packaging Instructions :

Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions :

Cargo Aircraft only Maximal Net Quantity :

ERG code:

Special Provisions for IATA:

SECTION 15 : REGULATORY INFORMATION

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC :

- Other EU regulations:

- Directive 2010/75/EC on industrial emissions

Not relevant

National regulations

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

Designation / Commercial name : HTRF P-T prot. - Block. reag.(100X) 0.3 mL

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

15.2 Chemical Safety Assessment:

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

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:06/09/2023

Modifications:

16.2 Other informations

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

See SECTION 2.1 (classification).

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

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

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

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

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

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

1.1 Product identifier:

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

CAS No.:

Index No:

EC No:

REACH No:

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

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

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

1.3 Details of the supplier of the safety data sheet:

Supplier:

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

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

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

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

1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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

2.2 Label elements

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

Product identifier:

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

Substances contained in this product:

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

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

Version: UK, Page 2 of 14, Revision date: 07/09/2023

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 and symptoms:

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

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

Version: UK, Page 3 of 14, 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 according Regulation (EC) No. 1272 [CLP] | Concentration (%) | SCL | M-factor |
|--|-----------|--------------|-----------|---|-------------------|-----|----------|
| potassium fluoride | 7789-23-3 | 009-005-00-2 | 232-151-5 | Acute toxicity - Acute Tox. 3 - H301 - Oral Acute toxicity - Acute Tox. 3 - H311 - Dermal Acute toxicity - Acute Tox. 3 - H331 - Inhalation | < 3% | | |
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid | 7365-45-9 | | 230-907-9 | | < 3% | | |

Additional information:

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

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

General information: Do not leave affected person unattended. ;

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

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

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

Following ingestion: Do NOT induce vomiting. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date. ;

Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

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

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

Version: UK, Page 4 of 14, Revision date: 07/09/2023

5.3 *Advice for fire-fighters*

Wear Protective clothing. ;

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures*

Emergency procedures: Provide adequate ventilation. ;

6.2 *Environmental precautions*

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

6.3 *Methods and material for containment and cleaning up*

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

Other information:

6.4 *Reference to other sections*

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

7.2 *Conditions for safe storage, including any incompatibilities*

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 *Specific end uses:*

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

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Preliminary remark:

8.1.1 Occupational exposure limits:

- France

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

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

Version: UK, Page 5 of 14, Revision date: 07/09/2023

| Substance | EC-No. | CAS-No | VLE (mg/m3) | VLE (ppm) | VME (mg/m3) | VME (ppm) |
|-----------------------|-----------|-----------|-------------|-----------|-------------|-----------|
| 7365-45-9 / 230-907-9 | 230-907-9 | 7365-45-9 | | | | |
| 7789-23-3 / 232-151-5 | 232-151-5 | 7789-23-3 | | | 2,5 | |

- Spain

| Substance | EC-No. | CAS-No | VLA-EC (mg/m3) | VLA-EC (ppm) | VLA-ED (mg/m3) | VLA-ED (ppm) |
|-----------------------|-----------|-----------|----------------|--------------|----------------|--------------|
| 7365-45-9 / 230-907-9 | 230-907-9 | 7365-45-9 | | | | |
| 7789-23-3 / 232-151-5 | 232-151-5 | 7789-23-3 | | | | |

- Germany

| Substance | EC-No. | CAS-No | AGW (mg/m3) | AGW (ppm) |
|-----------------------|-----------|-----------|-------------|-----------|
| 7365-45-9 / 230-907-9 | 230-907-9 | 7365-45-9 | | |
| 7789-23-3 / 232-151-5 | 232-151-5 | 7789-23-3 | | |

- Italia
- Greece
- UK
- OSHA (USA)

| | |
|----------|---|
| Source : | Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000 |
|----------|---|

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

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

Version: UK, Page 6 of 14, Revision date: 07/09/2023

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

8.1.2 Biological limit values (Germany):

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

8.1.3 Exposure limits at intended use (Germany):

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

8.1.4 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 | | |
| 7789-23-3 / 232-151-5 | 232-151-5 | 7789-23-3 | | | | 3-3 | 3-3 | | |

- 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 | | | | | | | |

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

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

Version: UK, Page 7 of 14, Revision date: 07/09/2023

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

DNEL remark:

- 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 | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |

PNEC remark:

Control parameters remark:

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

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:

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

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

Version: UK, Page 8 of 14, Revision date: 07/09/2023

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) | | | | | | |
| Decomposition temperature (°C) Decomposition energy : kJ | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| | Viscosity, cinematic (cm ² /s) | | | | | |
| Oxidising properties | | | | | | |
| Explosive properties | | | | | | |

9.2 Other information:

No other relevant data available

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

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

Version: UK, Page 9 of 14, Revision date: 07/09/2023

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 |
|-----------------------|--------------|---------|--------|----------------------------|--------|
| 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**

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

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

Version: UK, Page 10 of 14, Revision date: 07/09/2023

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

Practical experience / human evidence:

Other information:

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

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

Version: UK, Page 11 of 14, Revision date: 07/09/2023

Assessment / Classification:

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

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

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

12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 Persistence and degradability

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

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

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

Version: UK, Page 12 of 14, Revision date: 07/09/2023

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

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

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

Land transport (ADR/RID)

| | |
|--|---|
| Classification code ADR: | 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: |

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

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

Version: UK, Page 13 of 14, Revision date: 07/09/2023

| | |
|------------------------------|-----------------------------------|
| IBC Provisions: | IMO tank instructions: |
| UN tank instructions: | Tanks and bulk Provisions: |
| EmS : | Stowage and segregation for IMDG: |
| Properties and observations: | |

Inland waterway transport (ADN)

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

Air transport (ICAO-TI / IATA-DGR)

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

SECTION 15 : REGULATORY INFORMATION

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:

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

SVHC :

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

Not relevant

National regulations

15.2 *Chemical Safety Assessment:*

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

SECTION 16 : OTHER INFORMATION

16.1 *Indication of changes*

Date of the previous version:06/09/2023

Modifications:

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

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

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

16.2 Other informations

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

See SECTION 2.1 (classification).

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

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