

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

**Trade name: HTRF (h/m) ATG16L1 p-S278 Kit - 500 pts / 64ATG16S8PEG**

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**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) ATG16L1 p-S278 Kit - 500 pts d2 antibody          |              | 1           | 7  | Blue      | Liquid         |
| HTRF (h/m) ATG16L1 p-S278 Kit - 500 pts Eu Cryptate antibody |              | 1           | 7  | Colorless | Liquid         |
| HTRF (h/m) ATG16L1 p-S278 Kit - Ctrl Lys                     | 64ATG16S8TDA | 1           | 7  | Colorless | Liquid         |
| HTRF P-T prot. - Block. reag.(100X) 2 mL                     | 64KB1AAC     | 1           | -  | Colorless | Liquid         |
| HTRF P-T prot. - Lysis Buf.3 (4X) 2 mL                       |              | 4           | 7  | Colorless | Liquid         |
| HTRF P-T prot. - Detect. Buf. 2 mL                           |              | 2           | 7  | Colorless | Liquid         |

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

### 1.1 Product identifier:

**Designation / Commercial name : HTRF (h/m) ATG16L1 p-S278 Kit - Ctrl Lys 64ATG16S8TDA**

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<br>P501            |

### 2.2 Label elements

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

#### Product identifier:

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Substances contained in this product:

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

| Code | Hazard statements                                 |
|------|---|
| 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)

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## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous ingredients:

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

#### 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. ; Remove affected person from the danger area and lay down. ;

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

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

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

**Following ingestion:** Do NOT induce vomiting. ; Give nothing to eat or drink. ; If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. ;

**Self-protection of the first aider:**

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

Symptoms: No known symptoms to date. ;

Effects:

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

Notes for the doctor:

## SECTION 5 : FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

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

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

Hazardous combustion products: /

### 5.3 Advice for fire-fighters

Wear Protective clothing. ;

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

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

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## 6.2 Environmental precautions

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

## 6.3 Methods and material for containment and cleaning up

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

Other information:

## 6.4 Reference to other sections

Additional information:

# SECTION 7 : HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Protective measures:

Advice on safe handling: Avoid contact with skin, eyes and clothes. ; Avoid: Eye contact ; Avoid: Generation/formation of aerosols ; Avoid: Skin contact ; Avoid: inhalation ; In the immediate working surroundings there must be: Emergency shower installed ; In the immediate working surroundings there must be: Provide eye shower and label its location conspicuously ; Wash contaminated clothing immediately. ;

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ; Observe technical data sheet. ; Remove contaminated, saturated clothing. ; Wash hands before breaks and after work. ;

## 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Requirements for storage rooms and vessels: Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

## 7.3 Specific end uses:

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

# SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Preliminary remark:

### 8.1.1 Occupational exposure limits:

- France

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| Source : Informations 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 |             |           |             |           |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9  |             |           |             |           |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9  |             |           |             |           |

- Spain

| Source : Limites de Exposition Professionnelle pour Agents Chimiques en Espagne<br>Instituto Nacional de Seguridad e Higiene en el Trabajo<br>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 |                |              |                |              |
| 7365-45-9 / 230-907-9   | 230-907-9 | 7365-45-9  |                |              |                |              |
| 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 |             |           |
| 7365-45-9 / 230-907-9              | 230-907-9 | 7365-45-9  |             |           |
| 7758-16-9 / 231-835-0              | 231-835-0 | 7758-16-9  |             |           |

- Italia

- Greece

- UK

- OSHA (USA)

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| Source : Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000 |           |            |  |  |  |  |
|--|-----------|------------|--|--|--|--|
| Substance  | EC-No.    | CAS-No     | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm) | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m3) | OSHA Permissible Exposure Limit (PEL) STEL (ppm) | OSHA Permissible Exposure Limit (PEL) STEL (mg/m3) |
| 13721-39-6 / 237-287-9   | 237-287-9 | 13721-39-6 |  |  |  | 0,05   |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9  |  |  |  |  |
| 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 |             |           |
| 7365-45-9 / 230-907-9   | 230-907-9 | 7365-45-9  |             |           |
| 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 |             |           |
| 7365-45-9 / 230-907-9                  | 230-907-9 | 7365-45-9  |             |           |
| 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 |   |   |  |   |  |   |  |
| 7365-45-9 / 230-907-9                | 230-907-9 | 7365-45-9  |   |   |  |   | 23.5-23.5                                    |   |  |
| 7758-16-9 / 231-835-0                | 231-835-0 | 7758-16-9  |   |   |  |   | 2.79-2.79                                    |   |  |

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- 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 |   |   |  |   |  |   |  |
| 7365-45-9 / 230-907-9                | 230-907-9 | 7365-45-9  |   |   |  |   |  |   |  |
| 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) |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 |              |         |       |              |         |       |                      |         |       |               |         |       |              |         |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9  |              |         |       |              |         |       |                      |         |       |               |         |       |              |         |
| 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 |           |         |       |                             |         |       |          |         |       |                          |         |       |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9  |           |         |       |                             |         |       |          |         |       |                          |         |       |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9  |           |         |       |                             |         |       |          |         |       |                          |         |       |

PNEC remark:



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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 ; Laboratory coats ;

**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 <sup>2</sup> /h)                 |   |                       |        |                  |                |        |
| Flammability (type : ) (%)                              |   |                       |        |                  |                |        |
| Upper/lower flammability or explosive limits            | Upper explosive limit (%)                 |                       |        |                  |                |        |
|   | Lower explosive limit (%)                 |                       |        |                  |                |        |
| Vapour pressure (kPa)                                   |   |                       |        |                  |                |        |
| Vapour density (g/cm <sup>3</sup> )                     |   |                       |        |                  |                |        |
| Densities   | Density (g/cm <sup>3</sup> )              |                       |        |                  |                |        |
|   | Relative density (g/cm <sup>3</sup> )     |                       |        |                  |                |        |
|   | Bulk density (g/cm <sup>3</sup> )         |                       |        |                  |                |        |
|   | Critical density (g/cm <sup>3</sup> )     |                       |        |                  |                |        |
| 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 <sup>2</sup> /s) |                       |        |                  |                |        |
| Oxidising properties                                    |   |                       |        |                  |                |        |
| Explosive properties                                    |   |                       |        |                  |                |        |

### 9.2 Other information:

No other relevant data available

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## SECTION 10 : STABILITY AND REACTIVITY

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

**10.2 Chemical stability**

**10.3 Possibility of hazardous reactions**

**10.4 Conditions to avoid:**

**10.5 Incompatible materials:**

**10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses. ; Thermal decomposition can lead to the escape of irritating gases and vapors. ;

## SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

**11.1 Information on toxicological effects**

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

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

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

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

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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:

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:

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Assessment / Classification:

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

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

**SECTION 12 : ECOLOGICAL INFORMATION**

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

**12.1 Aquatic toxicity:**

Acute (short-term) fish toxicity

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

Chronic (long-term) fish toxicity

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

Acute (short-term) toxicity to crustacea

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

Chronic (long-term) toxicity to crustacea

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

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| 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. |

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 |         |        |        |        |

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

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**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)            |  |
| Packing group              |  |

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

Land transport (ADR/RID)

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

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

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#### Sea transport (IMDG)

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

#### Inland waterway transport (ADN)

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

#### Air transport (ICAO-TI / IATA-DGR)

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

## SECTION 15 : REGULATORY INFORMATION

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

#### EU regulations

- Authorisations and/or restrictions on use:

Authorisations: 9002-93-1

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

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

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## 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 statements                                    |
|------|--|
| H302 | Harmful if swallowed                                 |
| H312 | Harmful in contact with skin                         |
| H315 | Causes skin irritation                               |
| H318 | Causes serious eye damage.                           |
| H319 | Causes serious eye irritation                        |
| H332 | Harmful if inhaled                                   |
| 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) 2 mL 64KB1AAC

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

### 1.1 Product identifier:

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

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

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

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

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

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

#### Supplier:

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

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

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

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

### 1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

| Classification according to Regulation (EC) No 1272/2008 [CLP] | Category code | Hazard statement | Precautionary statement                           |
|--|---------------|------------------|---|
| Serious eye damage/eye irritation - Eye Irrit. 2 - H319        | Eye Irrit. 2  | H319             | P264<br>P280<br>P305 + P351 + P338<br>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) 2 mL 64KB1AAC

Substances contained in this product:

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

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Hazard pictograms

GHS07-exclam

Signal word:

Warning

Hazard and precautionary statements:

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

### 2.3 Other hazards

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

Adverse human health effects and symptoms:

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

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## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Hazardous ingredients:

| Substance name                   | CAS n°     | Index n° | EC n°     | Classification according Regulation (EC) No. 1272 [CLP]  | Concentration (%) | SCL | M-factor |
|----------------------------------|------------|----------|-----------|--|-------------------|-----|----------|
| disodium dihydrogenpyrophosphate | 7758-16-9  |          | 231-835-0 | Serious eye damage/eye irritation - Eye Irrit. 2 - H319  |                   |     |          |
| trisodium tetraoxovanadate       | 13721-39-6 |          | 237-287-9 | Acute toxicity - Acute Tox. 4 - H302 - Oral<br>Acute toxicity - Acute Tox. 4 - H312 - Dermal<br>Acute toxicity - Acute Tox. 4 - H332 - Inhalation<br>Serious eye damage/eye irritation - Eye Irrit. 2 - H319<br>Skin corrosion/irritation - Skin Irrit. 2 - H315 |                   |     |          |
| β-Glycerophosphate               | 13408-09-8 |          |           |  |                   |     |          |

Additional information:

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

## SECTION 4 : FIRST AID MEASURES

### 4.1 Description of first aid measures

**General information:** Do not leave affected person unattended. ;

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

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

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

**Following ingestion:** Do NOT induce vomiting. ;

**Self-protection of the first aider:**

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

Symptoms: No known symptoms to date. ;

Effects:

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

Notes for the doctor:

## SECTION 5 : FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

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

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

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

Hazardous combustion products:/

## 5.3 *Advice for fire-fighters*

Wear Protective clothing. ;

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation. ;

### 6.2 *Environmental precautions*

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

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

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

Other information:

### 6.4 *Reference to other sections*

Additional information:

## SECTION 7 : HANDLING AND STORAGE

### 7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

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

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

### 7.3 *Specific end uses:*

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

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 *Control parameters*

Preliminary remark:

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

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#### 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/m <sup>3</sup> ) | VLE (ppm) | VME (mg/m <sup>3</sup> ) | 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 Exposicion Profesional para Agentes Quimicos en Espana<br>Instituto Nacional de Seguridad e Higiene en el Trabajo<br>June 2015 |            |                             |              |                             |              |
|------------------------|---|------------|-----------------------------|--------------|-----------------------------|--------------|
| Substance              | EC-No.  | CAS-No     | VLA-EC (mg/m <sup>3</sup> ) | VLA-EC (ppm) | VLA-ED (mg/m <sup>3</sup> ) | 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/m <sup>3</sup> ) | 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)



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

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|                        |           |            |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------|-----------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9  |  |  |  |  |  |  |  |  |  |  |  |  |  |

DNEL remark:

- PNEC

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

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)

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

### 9.2 Other information:

No other relevant data available



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

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## SECTION 10 : STABILITY AND REACTIVITY

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

**10.2 Chemical stability**

**10.3 Possibility of hazardous reactions**

**10.4 Conditions to avoid:**

**10.5 Incompatible materials:**

**10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses. ;

## SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

### 11.1 Information on toxicological effects

#### 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) 2 mL 64KB1AAC

Version: UK, Page 10 of 14, Revision date: 06/10/2023

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) 2 mL 64KB1AAC

Version: UK, Page 11 of 14, Revision date: 06/10/2023

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) 2 mL 64KB1AAC

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**12.2 Persistence and degradability**

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF):

**12.4 Mobility in soil**

**12.5 Results of PBT and vPvB assessment**

**12.6 Other adverse effects:**

Additional ecotoxicological information:

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

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

**SECTION 14 : TRANSPORT INFORMATION**

ADR/RID/AND/IMDG/IATA

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

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

Land transport (ADR/RID)

Classification code ADR:

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) 2 mL 64KB1AAC

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Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No:

Transport category (Tunnel restriction code):

#### Sea transport (IMDG)

Marine Pollutant:

Subsidiary risk(s) for IMDG:

Packing provisions for IMDG:

Limited quantities for IMDG:

Packing instructions for IMDG:

IBC Instructions:

IBC Provisions:

IMO tank instructions:

UN tank instructions:

Tanks and bulk Provisions:

EmS :

Stowage and segregation for IMDG:

Properties and observations:

#### Inland waterway transport (ADN)

Classification Code ADN:

Special Provisions ADN:

Limited quantities ADN:

Excepted quantities ADN:

Carriage permitted:

Equipment required:

Provisions concerning loading and unloading:

Provisions concerning carriage:

Number of blue cones/lights:

Remark:

#### Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA:

Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions:

Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity :

Passenger and Cargo Aircraft Packaging Instructions :

Passenger and Cargo Aircraft Maximal Net Quantity :

Cargo Aircraft only Packaging Instructions :

Cargo Aircraft only Maximal Net Quantity :

ERG code:

Special Provisions for IATA:

## SECTION 15 : REGULATORY INFORMATION

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

#### EU regulations

- Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC :

- Other EU regulations:

- Directive 2010/75/EC on industrial emissions

Not relevant

#### National regulations

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

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

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### **15.2 Chemical Safety Assessment:**

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

## **SECTION 16 : OTHER INFORMATION**

### **16.1 Indication of changes**

Date of the previous version:09/09/2023

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):**

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

Designation / Commercial name : HTRF (h/m) ATG16L1 p-S278 Kit - 500 pts d2 antibody

Version: UK, Page 1 of 13, Revision date: 06/10/2023

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

### 1.1 Product identifier:

**Designation / Commercial name : HTRF (h/m) ATG16L1 p-S278 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) ATG16L1 p-S278 Kit - 500 pts d2 antibody

Substances contained in this product:

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

Designation / Commercial name : HTRF (h/m) ATG16L1 p-S278 Kit - 500 pts d2 antibody

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

### **2.3 Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006. ;

Adverse human health effects and symptoms:



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

Designation / Commercial name : HTRF (h/m) ATG16L1 p-S278 Kit - 500 pts d2 antibody

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## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Hazardous ingredients:

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

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) ATG16L1 p-S278 Kit - 500 pts d2 antibody

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation. ;

### 6.2 Environmental precautions

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

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

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

Other information:

### 6.4 Reference to other sections

Additional information:

## SECTION 7 : HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

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

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) ATG16L1 p-S278 Kit - 500 pts d2 antibody

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| 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<br>Instituto Nacional de Seguridad e Higiene en el Trabajo<br>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)

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

8.1.3 Exposure limits at intended use (Germany):

| Source :              | TRGS 903, November 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)

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

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 <sup>2</sup> /h)                 |                                       |                       |        |                  |                |        |
| Flammability (type : ) (%)                              |                                       |                       |        |                  |                |        |
| Upper/lower flammability or explosive limits            | Upper explosive limit (%)             |                       |        |                  |                |        |
|   | Lower explosive limit (%)             |                       |        |                  |                |        |
| Vapour pressure (kPa)                                   |                                       |                       |        |                  |                |        |
| Vapour density (g/cm <sup>3</sup> )                     |                                       |                       |        |                  |                |        |
| Densities   | Density (g/cm <sup>3</sup> )          |                       |        |                  |                |        |
|   | Relative density (g/cm <sup>3</sup> ) |                       |        |                  |                |        |
|   | Bulk density (g/cm <sup>3</sup> )     |                       |        |                  |                |        |
|   | Critical density (g/cm <sup>3</sup> ) |                       |        |                  |                |        |
| 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)

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

**9.2 Other information:**

No other relevant data available

**SECTION 10 : STABILITY AND REACTIVITY**

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

**10.2 Chemical stability**

**10.3 Possibility of hazardous reactions**

**10.4 Conditions to avoid:**

**10.5 Incompatible materials:**

**10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses. ;

**SECTION 11 : TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

**11.1 Information on toxicological effects**

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

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

Designation / Commercial name : HTRF (h/m) ATG16L1 p-S278 Kit - 500 pts d2 antibody

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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) ATG16L1 p-S278 Kit - 500 pts d2 antibody

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Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

#### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

## SECTION 12 : ECOLOGICAL INFORMATION

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

### 12.1 ***Aquatic toxicity:***

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

### 12.2 ***Persistence and degradability***

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

### 12.3 ***Bioaccumulative potential***

Bioconcentration factor (BCF):



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

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**12.4 Mobility in soil**

**12.5 Results of PBT and vPvB assessment**

**12.6 Other adverse effects:**

Additional ecotoxicological information:

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

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

**SECTION 14 : TRANSPORT INFORMATION**

ADR/RID/AND/IMDG/IATA

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

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

Land transport (ADR/RID)

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

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#### 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)

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

See SECTION 2.1 (classification).

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

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

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

### 1.1 Product identifier:

**Designation / Commercial name : HTRF (h/m) ATG16L1 p-S278 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) ATG16L1 p-S278 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) ATG16L1 p-S278 Kit - 500 pts Eu Cryptate antibody

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

**2.3 Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006. ;

Adverse human health effects and symptoms:

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

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## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Hazardous ingredients:

| Substance name  | CAS n°    | Index n° | EC n°     | Classification according Regulation (EC) No. 1272 [CLP] | Concentration (%) | SCL | M-factor |
|---|-----------|----------|-----------|---|-------------------|-----|----------|
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid        | 7365-45-9 |          | 230-907-9 |   |                   |     |          |
| Sorbitan monolaurate, ethoxylated (1-6.5 moles ethoxylated) | 9005-64-5 |          | 500-018-3 |   |                   |     |          |

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)

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation. ;

### 6.2 Environmental precautions

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

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

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

Other information:

### 6.4 Reference to other sections

Additional information:

## SECTION 7 : HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

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

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)

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| 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<br>Instituto Nacional de Seguridad e Higiene en el Trabajo<br>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)

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

8.1.3 Exposure limits at intended use (Germany):

| Source :              | TRGS 903, November 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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

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 <sup>2</sup> /h)                 |                                       |                       |        |                  |                |        |
| Flammability (type : ) (%)                              |                                       |                       |        |                  |                |        |
| Upper/lower flammability or explosive limits            | Upper explosive limit (%)             |                       |        |                  |                |        |
|   | Lower explosive limit (%)             |                       |        |                  |                |        |
| Vapour pressure (kPa)                                   |                                       |                       |        |                  |                |        |
| Vapour density (g/cm <sup>3</sup> )                     |                                       |                       |        |                  |                |        |
| Densities   | Density (g/cm <sup>3</sup> )          |                       |        |                  |                |        |
|   | Relative density (g/cm <sup>3</sup> ) |                       |        |                  |                |        |
|   | Bulk density (g/cm <sup>3</sup> )     |                       |        |                  |                |        |
|   | Critical density (g/cm <sup>3</sup> ) |                       |        |                  |                |        |
| 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)

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

**9.2 Other information:**

No other relevant data available

**SECTION 10 : STABILITY AND REACTIVITY**

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

**10.2 Chemical stability**

**10.3 Possibility of hazardous reactions**

**10.4 Conditions to avoid:**

**10.5 Incompatible materials:**

**10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses. ;

**SECTION 11 : TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

**11.1 Information on toxicological effects**

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

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

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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)

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Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

#### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

## SECTION 12 : ECOLOGICAL INFORMATION

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

### **12.1 Aquatic toxicity:**

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

### **12.2 Persistence and degradability**

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

### **12.3 Bioaccumulative potential**

Bioconcentration factor (BCF):

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

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**12.4 Mobility in soil**

**12.5 Results of PBT and vPvB assessment**

**12.6 Other adverse effects:**

Additional ecotoxicological information:

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

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

**SECTION 14 : TRANSPORT INFORMATION**

ADR/RID/AND/IMDG/IATA

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

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

Land transport (ADR/RID)

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

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#### 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)

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

See SECTION 2.1 (classification).

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



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

Designation / Commercial name : HTRF P-T prot. - Lysis Buf.3 (4X) 2 mL

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

### 1.1 Product identifier:

**Designation / Commercial name : HTRF P-T prot. - Lysis Buf.3 (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<br>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.3 (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.3 (4X) 2 mL

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

| Code | Hazard statements                                 |
|------|---|
| 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)

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## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Hazardous ingredients:

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

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

Hazardous combustion products: /

## 5.3 *Advice for fire-fighters*

Wear Protective clothing. ;

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation. ;

### 6.2 *Environmental precautions*

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

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

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

Other information:

### 6.4 *Reference to other sections*

Additional information:

## SECTION 7 : HANDLING AND STORAGE

### 7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

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

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

### 7.3 *Specific end uses:*

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

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 *Control parameters*

Preliminary remark:

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

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### 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<br>Instituto Nacional de Seguridad e Higiene en el Trabajo<br>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)

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

### 8.1.2 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 |  |

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

| 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 <sup>2</sup> /h)      |                           |                       |        |                  |                |        |
| Flammability (type : ) (%)                   |                           |                       |        |                  |                |        |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) |                       |        |                  |                |        |
|  | Lower explosive limit (%) |                       |        |                  |                |        |

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

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|   |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| Vapour pressure (kPa)                                       |   |  |  |  |  |  |
| Vapour density (g/cm <sup>3</sup> )                         |   |  |  |  |  |  |
| Densities   | Density (g/cm <sup>3</sup> )              |  |  |  |  |  |
|   | Relative density (g/cm <sup>3</sup> )     |  |  |  |  |  |
|   | Bulk density (g/cm <sup>3</sup> )         |  |  |  |  |  |
|   | Critical density (g/cm <sup>3</sup> )     |  |  |  |  |  |
| Solubility (Type : ) (g/L)                                  |   |  |  |  |  |  |
| Partition coefficient (log Pow)<br>n-octanol/water at pH :  |   |  |  |  |  |  |
| Auto-ignition temperature (°C)                              |   |  |  |  |  |  |
| Decomposition temperature (°C)<br>Decomposition energy : kJ |   |  |  |  |  |  |
| Viscosity   | Viscosity, dynamic (poiseuille)           |  |  |  |  |  |
|   | Viscosity, cinematic (cm <sup>2</sup> /s) |  |  |  |  |  |
| Oxidising properties  |   |  |  |  |  |  |
| Explosive properties  |   |  |  |  |  |  |

## 9.2 Other information:

No other relevant data available

## SECTION 10 : STABILITY AND REACTIVITY

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

**10.2 Chemical stability**

**10.3 Possibility of hazardous reactions**

**10.4 Conditions to avoid:**

**10.5 Incompatible materials:**

**10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses. ;

## SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

**11.1 Information on toxicological effects**

### Substances

- **Acute toxicity**

### Animal data:

Acute oral toxicity:

| 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)

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Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

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

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

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

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

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

Animal data:

Assessment / Classification:

- Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

- Reproductive toxicity

Practical experience / human evidence:

Animal data:

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

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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)

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

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Abiotic Degradation:

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

Assessment / Classification:

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF):

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

**12.4 Mobility in soil**

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

**12.5 Results of PBT and vPvB assessment**

**12.6 Other adverse effects:**

Additional ecotoxicological information:

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

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

**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)

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

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

Land transport (ADR/RID)

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

Sea transport (IMDG)

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

Inland waterway transport (ADN)

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

Air transport (ICAO-TI / IATA-DGR)

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

**SECTION 15 : REGULATORY INFORMATION**

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations: 9002-93-1

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

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Restrictions on use:

SVHC :9002-93-1

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

Not relevant

National regulations

### 15.2 Chemical Safety Assessment:

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

## SECTION 16 : OTHER INFORMATION

### 16.1 Indication of changes

Date of the previous version:07/09/2023

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. - Detect. Buf. 2 mL

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

### 1.1 Product identifier:

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

CAS No.:

Index No:

EC No:

REACH No:

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

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

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

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

#### Supplier:

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

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

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

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

### 1.4 EMERGENCY TELEPHONE NUMBER:

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

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

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

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

<https://www.cisbio.com>

<https://www.revvity.com>

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

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

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

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

### 2.2 Label elements

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

#### Product identifier:

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

Substances contained in this product:

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

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

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Hazard pictograms

Signal word:

Hazard and precautionary statements:

### **2.3 Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006. ;

Adverse human health effects and symptoms:



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

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## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Hazardous ingredients:

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

Additional information:

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

## SECTION 4 : FIRST AID MEASURES

### 4.1 Description of first aid measures

**General information:** Do not leave affected person unattended. ;

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

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

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

**Following ingestion:** Do NOT induce vomiting. ;

**Self-protection of the first aider:**

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

Symptoms: No known symptoms to date. ;

Effects:

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

Notes for the doctor:

## SECTION 5 : FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

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

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

Hazardous combustion products: /

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

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### 5.3 *Advice for fire-fighters*

Wear Protective clothing. ;

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation. ;

### 6.2 *Environmental precautions*

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

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

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

Other information:

### 6.4 *Reference to other sections*

Additional information:

## SECTION 7 : HANDLING AND STORAGE

### 7.1 *Precautions for safe handling*

Protective measures:

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

Fire preventions:

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

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

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

Technical measures and storage conditions:

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

### 7.3 *Specific end uses:*

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

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 *Control parameters*

Preliminary remark:

#### 8.1.1 Occupational exposure limits:

- France

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

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| 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 |             |           |             |           |
| 7789-23-3 / 232-151-5  | 232-151-5 | 7789-23-3 |             |           | 2,5         |           |

- Spain

| Source : Limites de Exposition Professionnelle pour Agents Chimiques en Espagne<br>Instituto Nacional de Seguridad e Higiene en el Trabajo<br>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 |                |              |                |              |
| 7789-23-3 / 232-151-5   | 232-151-5 | 7789-23-3 |                |              |                |              |

- 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 |             |           |
| 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)

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

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

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

**9.2 Other information:**

No other relevant data available

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

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## SECTION 10 : STABILITY AND REACTIVITY

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

**10.2 Chemical stability**

**10.3 Possibility of hazardous reactions**

**10.4 Conditions to avoid:**

**10.5 Incompatible materials:**

**10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses. ;

## SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

### 11.1 Information on toxicological effects

#### 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)

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Animal data:

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (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)

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Assessment / Classification:

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

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

#### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

## SECTION 12 : ECOLOGICAL INFORMATION

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

### **12.1 Aquatic toxicity:**

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

### **12.2 Persistence and degradability**

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

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

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**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF):

**12.4 Mobility in soil**

**12.5 Results of PBT and vPvB assessment**

**12.6 Other adverse effects:**

Additional ecotoxicological information:

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

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

**SECTION 14 : TRANSPORT INFORMATION**

ADR/RID/AND/IMDG/IATA

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

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#### **16.2 Other informations**

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

See SECTION 2.1 (classification).

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