

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

Trade name: HTRF Human VHL Bind. Kit - 10K pts / 64BDVHLPEH

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

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

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

# Nomenclature of the product

Description	Component	Nb of vials	рН	Color	Physical state
HTRF Diluent 9 (5X) - 100 mL	62DL9DDC	1	7	Colorless	Liquid
HTRF PROTAC Bind. Buf. 1 - 200 mL	64BDE31RDF	1	8	Colorless	Liquid
HTRF Human VHL Bind. Kit - 10K pts Eu Cryptate antibody		1	7	Colorless	Liquid
HTRF Human VHL Bind. Kit - 10K pts 6His-VHL complex		1	7	Colorless	Liquid
HTRF Human VHL Bind. Kit - 10K pts VHL-Red Ligand		1	7	Blue	Liquid
HTRF Human VHL Bind. Kit - Std	64BDVHLCDA	2	1	Colorless	Liquid





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

#### 1.1 Product identifier:

Designation / Trade name: HTRF Diluent 9 (5X) - 100 mL 62DL9DDC

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)

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

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

#### 2.1 Classification of the substance or mixture:

Classification in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None

# 2.2 Label elements

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

# **Product identifier:**

Designation / Trade name: HTRF Diluent 9 (5X) - 100 mL 62DL9DDC

Substances contained in this product:



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Hazard pictograms

Signal word:

**Hazard and precautionary statements:** 

#### 2.3 Other hazards

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

Adverse human health effects:



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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Concentration (%)	SCL	M-factor
4-(2- hydroxyethyl)piperazin- 1-ylethanesulphonic acid	7365-45-9		230-907-9		< 10%		

#### Additional information:

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

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

# 4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

**Following inhalation**: In case of respiratory tract irritation, consult a physician.; **Following skin contact**: After contact with skin, wash immediately with water;

Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time,

then consult an ophthalmologist immediately.; **Following ingestion**: Do NOT induce vomiting.;

Self-protection of the first aider:

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

Symptoms: No known symptoms to date.;

Effects:

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

Notes for the doctor:

#### **SECTION 5: FIREFIGHTING MEASURES**

# 5.1 Extinguishing media:

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

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

# 5.3 Advice for fire-fighters

Wear Protective clothing.;

Additional information:



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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

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

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

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

# 6.4 Reference to other sections

Additional information:

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

# 7.1 Precautions for safe handling

**Protective measures:** 

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

Fire preventions:

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

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

# 7.2 Conditions for safe storage, including any incompatibilities

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

#### 7.3 Specific end uses:

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

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Preliminary remark:

# 8.1.1 Occupational exposure limits:

OSHA (USA)



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Source :	Occupational Safe	ty and Health Admin	istration (OSHA) Permis	sible Exposure Limits (PEL	S) from 29 CFR 1910.100	00
Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8- hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)
7365-45-9 / 230-907- 9	230-907-9	7365-45-9				

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

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

DNEL worker

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

# DNEL consumer

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

# PNEC

Source :	INERIS																
		PNEC AQUATIC							PNEC Sediment								
Substance	EC-No.	CAS No	1	freshwate	r	m	arine wat	er	interr	nittent re	lease	fı	reshwate	er	ma	rine wat	:er
Substance	EC-No. CAS-No	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	
7365-45-9 / 230-907- 9	230-907-9	7365-45-9															

Source :	INERIS



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

# 8.2 Exposure controls

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

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

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

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

Skin protection: Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

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

Consumer exposure control

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

Measures related to the service life of the substance in articles:

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

# 9.1 Information on basic physical and chemical properties

<u>Appearance</u>

7 10 0 Caramee	
Physical state	Liquid;
Colour	Colorless;
Odour	
Odour threshold (ppm)	

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



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

# 9.2 Other information:

No other relevant data available

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

#### 10.1 Reactivity

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

- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

# 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

# SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

# 11.1 Information on toxicological effects

# <u>Substances</u>

Acute toxicity

# Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:



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		•	<i>.</i>
•	Skin	corrosion	rirritation

In-vitro skin test method:
In-vitro skin test result:

Assessment / Classification:

• Eye damage/irritation

# Animal data:

Animal data:

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

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

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence: Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

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

Animal data:

Other information:

o STOT SE 3



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Practical experience / human evidence:

Other information:

Assessment / Classification:

Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

#### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

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

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

# 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

<u>Toxicity to microorganisms and other aquatic plants / organisms</u>

Assessment / Classification:

# 12.2 Persistence and degradability

**Biodegradation:** 

**Abiotic Degradation:** 



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# Assessment / Classification:

#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

#### 12.4 Mobility in soil

# 12.5 Results of PBT and vPvB assessment

#### *12.6 Other adverse effects:*

Additional ecotoxicological information:

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

#### 13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation.;

Other disposal recommendations:

Additional information:

# **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

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

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

#### Land transport (ADR/RID)

Classification code ADR:

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):



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Sea transport (IMDG)

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

Packing instructions for IMDG: IBC Instructions:
IBC Provisions: IMO tank instructions:
UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

**Inland waterway transport (ADN)** 

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

Provisions concerning loading and unloading:

Provisions concerning carriage: Number of blue cones/lights:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

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

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

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

ERG code: Special Provisions for IATA:

# **SECTION 15: REGULATORY INFORMATION**

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

# 15.2 Chemical Safety Assessment:

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

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

# 16.1 Indication of changes

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

# 16.2 Abbreviations and acronyms:

# 16.3 Key literature references and sources for data

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

See SECTION 2.1 (classification).

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





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Designation / Trade name: HTRF PROTAC Bind. Buf. 1 - 200 mL 64BDE31RDF

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

#### 1.1 Product identifier:

#### 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

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USA & Canada - Phone: 1-888-963-456 (1) Other countries - Phone: +33 (0) 466 796 737 (2)

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

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

#### 2.1 Classification of the substance or mixture:

Classification in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None

# 2.2 Label elements

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

# **Product identifier:**

Designation / Trade name: HTRF PROTAC Bind. Buf. 1 - 200 mL  $\,$  64BDE31RDF

Substances contained in this product:



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Hazard pictograms

Signal word:

**Hazard and precautionary statements:** 

#### 2.3 Other hazards

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

Adverse human health effects:



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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.;

Additional information:

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

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



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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 ;

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

# 7.2 Conditions for safe storage, including any incompatibilities

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:

OSHA (USA)



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

- DNEL worker
- DNEL consumer
- PNEC

#### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

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

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

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

Skin protection: Gloves; Laboratory coats;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

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

Consumer exposure control

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

Measures related to the service life of the substance in articles:

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

# 9.1 Information on basic physical and chemical properties

# **Appearance**

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

		Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
рН		7,5					
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling ra	inge (°C)						
Flash point (°C)							
Evaporation rate (kg/m²/h)							
Flammability (type : ) (%)							
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
Lower explosive limit (%)							
Vapour pressure (kPa)							
Vapour density (g/cm³)							
[	Density (g/cm³)						



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				V
Densitie	es Relative density (g/cm³)			
	Bulk density (g/cm³)			
	Critical density (g/cm³)			
Solubility (Type :	: ) (g/L)			
Partition coefficient (log Pow) n-octanol/water at pH :				
Auto-ignition ter	mperature (°C)			
Decomposition t				
Decomposition 6	energy: kJ			
Viscosity	Viscosity, dynamic (poiseuille)			
	Viscosity, cinematic (cm³/s)			
Explosive properties				
	Oxidising properties			

# 9.2 Other information:

No other relevant data available

# **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity

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

# 10.2 Chemical stability

# 10.3 Possibility of hazardous reactions

# 10.4 Conditions to avoid:

# 10.5 Incompatible materials:

# 10.6 Hazardous decomposition products:

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

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

# 11.1 Information on toxicological effects

## **Substances**

Acute toxicity

# Animal data:

Acute oral toxicity:

Acute dermal toxicity:



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Acute inhalative toxicity:

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

• Skin corrosion/irritation

Animal data:

In-vitro skin test method: In-vitro skin test result:

Assessment / Classification:

• Eye damage/irritation

# Animal data:

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

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

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Reproductive toxicity

Practical experience / human evidence: Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:



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# Specific target organ toxicity (single exposure)

o STOT SE 1 and 2

Animal data:

Other information:

o STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

• Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

#### Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

# 11.1.1 Mixtures

No toxicological information is available for the mixture itself

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

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

#### 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

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



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Assessment / Classification:

#### 12.2 Persistence and degradability

**Biodegradation:** 

Abiotic Degradation:

Assessment / Classification:

#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

#### *12.6 Other adverse effects:*

Additional ecotoxicological information:

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation.;

Other disposal recommendations:

Additional information:

# **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

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

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

# Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Limited quantities for ADR/RID: Excepted Quantities for ADR/RID:

Packing Instructions for ADR/RID:

Special packing provisions for ADR/RID:

Mixed packing provisions: Portable tanks and bulk containers Instructions:

Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:



Designation / Trade name: HTRF PROTAC Bind. Buf. 1 - 200 mL 64BDE31RDF

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Vehicle for tank carriage: Special provisions for carriage Packages:

Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

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

Sea transport (IMDG)

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

Packing instructions for IMDG: IBC Instructions:
IBC Provisions: IMO tank instructions:
UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

**Inland waterway transport (ADN)** 

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

Provisions concerning loading and unloading:

Provisions concerning carriage: Number of blue cones/lights:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

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

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

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

ERG code: Special Provisions for IATA:

#### **SECTION 15: REGULATORY INFORMATION**

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

## 15.2 Chemical Safety Assessment:

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

# **SECTION 16: OTHER INFORMATION**

# 16.1 Indication of changes

Date of the previous version:15/06/2022

Modifications:



Designation / Trade name: HTRF PROTAC Bind. Buf. 1 - 200 mL 64BDE31RDF

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

See SECTION 2.1 (classification).

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





Designation / Trade name: HTRF Human VHL Bind. Kit - Std 64BDVHLCDA

Version: US, Page 1 of 12, Revision date: 07/09/2023

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

#### 1.1 Product identifier:

Designation / Trade name: HTRF Human VHL Bind. Kit - Std 64BDVHLCDA
CAS No.: Index No: EC No: REACH No:

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

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

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

#### Supplier:

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

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

#### 1.4 EMERGENCY TELEPHONE NUMBER:

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

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

USA & Canada - Phone: 1-888-963-456 (1) Other countries - Phone: +33 (0) 466 796 737 (2)

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

- (1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5
- (2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

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

#### 2.1 Classification of the substance or mixture:

Classification in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None

# 2.2 Label elements

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

# **Product identifier:**

Designation / Trade name: HTRF Human VHL Bind. Kit - Std  $\,$  64BDVHLCDA

Substances contained in this product:



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Hazard pictograms

Signal word:

**Hazard and precautionary statements:** 

#### 2.3 Other hazards

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

Adverse human health effects:



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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Concentration (%)	SCL	M-factor
4-(2- hydroxyethyl)piperazin- 1-ylethanesulphonic acid	7365-45-9		230-907-9		< 3%		

#### Additional information:

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

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

# 4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

**Following inhalation**: In case of respiratory tract irritation, consult a physician.; **Following skin contact**: After contact with skin, wash immediately with water;

Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time,

then consult an ophthalmologist immediately.; **Following ingestion**: Do NOT induce vomiting.;

Self-protection of the first aider:

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

Symptoms: No known symptoms to date.;

Effects:

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

Notes for the doctor:

#### **SECTION 5: FIREFIGHTING MEASURES**

# 5.1 Extinguishing media:

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

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

# 5.3 Advice for fire-fighters

Wear Protective clothing.;

Additional information:



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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation.;

#### 6.2 Environmental precautions

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

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

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

# 6.4 Reference to other sections

Additional information:

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

# 7.1 Precautions for safe handling

**Protective measures:** 

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

Fire preventions:

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

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

# 7.2 Conditions for safe storage, including any incompatibilities

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

#### 7.3 Specific end uses:

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

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Preliminary remark:

# 8.1.1 Occupational exposure limits:

OSHA (USA)



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

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

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

• DNEL worker

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

# DNEL consumer

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

# PNEC

Source :	INERIS																
				PNEC AQUATIC								PNEC Sediment					
Substance	EC No. CAS No.		1	freshwater		m	marine water inte		interr	intermittent release		freshwater		marine water		:er	
Substance	EC-No.	No. CAS-No	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
7365-45-9 / 230-907- 9	230-907-9	7365-45-9															

Source :	INERIS



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				Others										
Substance	EC-No.	C-No. CAS-No		PNEC soil		PNEC s	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)	ng/L) (mg/kg)	(ppm)
7365-45-9 / 230-907-9	230-907-9	7365-45-9												

# 8.2 Exposure controls

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

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

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

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

Skin protection: Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

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

Consumer exposure control

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

Measures related to the service life of the substance in articles:

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

# 9.1 Information on basic physical and chemical properties

<u>Appearance</u>

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

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



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

# 9.2 Other information:

No other relevant data available

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

#### 10.1 Reactivity

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

- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

# 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

# SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

# 11.1 Information on toxicological effects

# **Substances**

Acute toxicity

# Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence: Assessment / Classification:

General Remark:



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		•	<i>.</i>
•	Skin	corrosion	rirritation

In-vitro	skin test	method:	

In-vitro skin test result:

Assessment / Classification:

• Eye damage/irritation

# Animal data:

Animal data:

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

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

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence: Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

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

Animal data:

Other information:

o STOT SE 3



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Practical experience / human evidence:

Other information:

Assessment / Classification:

Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

#### 11.1.1 Mixtures

No toxicological information is available for the mixture itself

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

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

# 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

<u>Toxicity to microorganisms and other aquatic plants / organisms</u>

Assessment / Classification:

# 12.2 Persistence and degradability

**Biodegradation:** 

Abiotic Degradation:



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# Assessment / Classification:

#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

#### 12.4 Mobility in soil

# 12.5 Results of PBT and vPvB assessment

#### *12.6 Other adverse effects:*

Additional ecotoxicological information:

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

#### 13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation.;

Other disposal recommendations:

Additional information:

# **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

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

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

#### Land transport (ADR/RID)

Classification code ADR:

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):



Designation / Trade name: HTRF Human VHL Bind. Kit - Std 64BDVHLCDA

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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: IMO tank instructions: UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

**Inland waterway transport (ADN)** 

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

Provisions concerning loading and unloading:

Provisions concerning carriage: Number of blue cones/lights:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

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

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

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

ERG code: Special Provisions for IATA:

# **SECTION 15: REGULATORY INFORMATION**

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

# 15.2 Chemical Safety Assessment:

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

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

# 16.1 Indication of changes

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

# 16.2 Abbreviations and acronyms:

# 16.3 Key literature references and sources for data

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

See SECTION 2.1 (classification).

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





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Designation / Trade name: HTRF Human VHL Bind. Kit - 10K pts Eu Cryptate antibody

Version: US, Page 1 of 11, Revision date: 07/09/2023

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

## 1.1 Product identifier:

Designation / Trade name: HTRF Human VHL Bind. Kit - 10K pts Eu Cryptate antibody

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

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

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

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

## Supplier:

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

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

#### 1.4 EMERGENCY TELEPHONE NUMBER:

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

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

USA & Canada - Phone: 1-888-963-456 (1) Other countries - Phone: +33 (0) 466 796 737 (2)

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

- (1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5
- (2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture:

Classification in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
The substance or mixture is not classified as hazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None

# 2.2 Label elements

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

<u>Product identifier:</u>

Designation / Trade name: HTRF Human VHL Bind. Kit - 10K pts Eu Cryptate antibody

Substances contained in this product:



Designation / Trade name: HTRF Human VHL Bind. Kit - 10K pts Eu Cryptate antibody

Version: US, Page 2 of 11, Revision date: 07/09/2023

Hazard pictograms

Signal word:

**Hazard and precautionary statements:** 

## 2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 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:



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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.;

Additional information:

## SECTION 6: ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

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



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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 ;

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

# 7.2 Conditions for safe storage, including any incompatibilities

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:

OSHA (USA)



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

- DNEL worker
- DNEL consumer
- PNEC

## 8.2 Exposure controls

## 8.2.1 Appropriate engineering controls:

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

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

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

Skin protection: Gloves; Laboratory coats;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

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

Consumer exposure control

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

Measures related to the service life of the substance in articles:

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

# 9.1 Information on basic physical and chemical properties

# **Appearance**

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

		Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
рН		7					
Melting point (°C)							
Freezing point (°C)							
Initial boiling point/boiling ra	ange (°C)						
Flash point (°C)							
Evaporation rate (kg/m²/h)							
Flammability (type : ) (%)							
Upper/lower flammability or explosive limits	Upper explosive limit (%)						
	Lower explosive limit (%)						
Vapour pressure (kPa)	Vapour pressure (kPa)						
Vapour density (g/cm³)	Vapour density (g/cm³)						
1	Density (g/cm³)						



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					V
Densitie	s Relative density (g/cm³)				
	Bulk density (g/cm³)				
	Critical density (g/cm³)				
Solubility (Type :	) (g/L)				
Partition coeffici n-octanol/water					
Auto-ignition ter	mperature (°C)				
Decomposition to Decomposition 6					
Viscosity	Viscosity, dynamic (poiseuille)				
	Viscosity, cinematic (cm <sup>3</sup> /s)				
	Explosive properties				
	Oxidising properties	·			

# 9.2 Other information:

No other relevant data available

# **SECTION 10: STABILITY AND REACTIVITY**

## 10.1 Reactivity

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

# 10.2 Chemical stability

# 10.3 Possibility of hazardous reactions

# 10.4 Conditions to avoid:

# 10.5 Incompatible materials:

# 10.6 Hazardous decomposition products:

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

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

# 11.1 Information on toxicological effects

## **Substances**

Acute toxicity

# Animal data:

Acute oral toxicity:

Acute dermal toxicity:



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Acute inhalative toxicity:

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

• Skin corrosion/irritation

Animal data:

In-vitro skin test method: In-vitro skin test result:

Assessment / Classification:

• Eye damage/irritation

# Animal data:

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

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

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:



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# Specific target organ toxicity (single exposure)

o STOT SE 1 and 2

Animal data:

Other information:

o STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

• Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

## Aspiration hazard

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

Remark:

# 11.1.1 Mixtures

No toxicological information is available for the mixture itself

## **SECTION 12: ECOLOGICAL INFORMATION**

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

## 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

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



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Assessment / Classification:

## 12.2 Persistence and degradability

**Biodegradation:** 

Abiotic Degradation:

Assessment / Classification:

## 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

12.4 Mobility in soil

## 12.5 Results of PBT and vPvB assessment

## *12.6 Other adverse effects:*

Additional ecotoxicological information:

## SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation.;

Other disposal recommendations:

Additional information:

# **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

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

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

# Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Limited quantities for ADR/RID: Excepted Quantities for ADR/RID:

Packing Instructions for ADR/RID:

Special packing provisions for ADR/RID:

Mixed packing provisions: Portable tanks and bulk containers Instructions:

Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:



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Vehicle for tank carriage: Special provisions for carriage Packages:

Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

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

Sea transport (IMDG)

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

Packing instructions for IMDG: IBC Instructions:

IBC Provisions: IMO tank instructions:

UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

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

Provisions concerning loading and unloading:

Provisions concerning carriage: Number of blue cones/lights:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

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

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

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

ERG code: Special Provisions for IATA:

## **SECTION 15: REGULATORY INFORMATION**

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

## 15.2 Chemical Safety Assessment:

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

# **SECTION 16: OTHER INFORMATION**

# 16.1 Indication of changes

Date of the previous version:06/09/2023

Modifications:



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

See SECTION 2.1 (classification).

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





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

## 1.1 Product identifier:

Designation / Trade name: HTRF Human VHL Bind. Kit - 10K pts 6His-VHL complex

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

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

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

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

## Supplier:

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

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

#### 1.4 EMERGENCY TELEPHONE NUMBER:

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

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

USA & Canada - Phone: 1-888-963-456 (1) Other countries - Phone: +33 (0) 466 796 737 (2)

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

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

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

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture:

Classification in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement		
The substance or mixture is not classified as hazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None		

# 2.2 Label elements

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

<u>Product identifier:</u>

Designation / Trade name: HTRF Human VHL Bind. Kit - 10K pts 6His-VHL complex

Substances contained in this product:



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Hazard pictograms

Signal word:

**Hazard and precautionary statements:** 

## 2.3 Other hazards

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

Adverse human health effects:



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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Concentration (%)	SCL	M-factor
4-(2- hydroxyethyl)piperazin- 1-ylethanesulphonic acid	7365-45-9		230-907-9		< 3%		

## Additional information:

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

#### SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

**Following inhalation**: In case of respiratory tract irritation, consult a physician.; **Following skin contact**: After contact with skin, wash immediately with water;

Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time,

then consult an ophthalmologist immediately.; **Following ingestion**: Do NOT induce vomiting.;

Self-protection of the first aider:

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

Symptoms: No known symptoms to date.;

Effects:

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

Notes for the doctor:

## **SECTION 5: FIREFIGHTING MEASURES**

# 5.1 Extinguishing media:

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

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

# 5.3 Advice for fire-fighters

Wear Protective clothing.;

Additional information:



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## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation.;

## 6.2 Environmental precautions

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

## 6.3 Methods and material for containment and cleaning up

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

# 6.4 Reference to other sections

Additional information:

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

# 7.1 Precautions for safe handling

**Protective measures:** 

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

Fire preventions:

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

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

# 7.2 Conditions for safe storage, including any incompatibilities

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

## 7.3 Specific end uses:

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

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

Preliminary remark:

# 8.1.1 Occupational exposure limits:

OSHA (USA)



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

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

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

DNEL worker

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

# DNEL consumer

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

# PNEC

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

Source :	INERIS



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

# 8.2 Exposure controls

# 8.2.1 Appropriate engineering controls:

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

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

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

Skin protection: Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

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

Consumer exposure control

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

Measures related to the service life of the substance in articles:

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

# 9.1 Information on basic physical and chemical properties

<u>Appearance</u>

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

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



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Decomposition to Decomposition 6	emperature (°C) energy : kJ			v
Viscosity	Viscosity, dynamic (poiseuille)			
	Viscosity, cinematic (cm <sup>3</sup> /s)			
	Explosive properties			
	Oxidising properties			

# 9.2 Other information:

No other relevant data available

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

## 10.1 Reactivity

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

- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

# 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

# 11.1 Information on toxicological effects

# **Substances**

Acute toxicity

# Animal data:

Acute oral toxicity:

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:



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# • Skin corrosion/irritation

# Animal data:

In-vitro skin test method: In-vitro skin test result:

Assessment / Classification:

• Eye damage/irritation

# Animal data:

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

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

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

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

Animal data:

Other information:

o STOT SE 3



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Practical experience / human evidence:

Other information:

Assessment / Classification:

Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

## 11.1.1 Mixtures

No toxicological information is available for the mixture itself

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

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

# 12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

<u>Toxicity to microorganisms and other aquatic plants / organisms</u>

Assessment / Classification:

# 12.2 Persistence and degradability

**Biodegradation:** 

**Abiotic Degradation:** 



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# Assessment / Classification:

## 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

## 12.4 Mobility in soil

# 12.5 Results of PBT and vPvB assessment

## *12.6 Other adverse effects:*

Additional ecotoxicological information:

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation.;

Other disposal recommendations:

Additional information:

# **SECTION 14: TRANSPORT INFORMATION**

# ADR/RID/AND/IMDG/IATA

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

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

## Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Limited quantities for ADR/RID: Excepted Quantities for ADR/RID:

Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:

Mixed packing provisions: Portable tanks and bulk containers Instructions:

Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage: Special provisions for carriage Packages:

Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

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



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Sea transport (IMDG)

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

Packing instructions for IMDG: IBC Instructions:
IBC Provisions: IMO tank instructions:
UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

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

Provisions concerning loading and unloading:

Provisions concerning carriage: Number of blue cones/lights:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

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

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

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

ERG code: Special Provisions for IATA:

# **SECTION 15: REGULATORY INFORMATION**

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

# 15.2 Chemical Safety Assessment:

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

## **SECTION 16: OTHER INFORMATION**

# 16.1 Indication of changes

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

# 16.2 Abbreviations and acronyms:

# 16.3 Key literature references and sources for data

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

See SECTION 2.1 (classification).

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





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

## 1.1 Product identifier:

Designation / Trade name: HTRF Human VHL Bind. Kit - 10K pts VHL-Red Ligand

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

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

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

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

## Supplier:

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

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

#### 1.4 EMERGENCY TELEPHONE NUMBER:

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

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

USA & Canada - Phone: 1-888-963-456 (1) Other countries - Phone: +33 (0) 466 796 737 (2)

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

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

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

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture:

(	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
þ	The substance or mixture is not classified as nazardous in accordance with 29 CFR 1910 (OSHA HCS)	None	None	None

# 2.2 Label elements

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

<u>Product identifier:</u>

Designation / Trade name: HTRF Human VHL Bind. Kit - 10K pts VHL-Red Ligand

Substances contained in this product:



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Hazard pictograms

Signal word:

**Hazard and precautionary statements:** 

## 2.3 Other hazards

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

Adverse human health effects:



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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Concentration (%)	SCL	M-factor
dimethyl sulfoxide	67-68-5		200-664-3		≤ 100%		

## Additional information:

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

#### SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

**Following inhalation**: In case of respiratory tract irritation, consult a physician.; **Following skin contact**: After contact with skin, wash immediately with water;

Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time,

then consult an ophthalmologist immediately.; Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

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

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

Effects:

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

Notes for the doctor:

## **SECTION 5: FIREFIGHTING MEASURES**

# 5.1 Extinguishing media:

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

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

## 5.3 Advice for fire-fighters

Wear Protective clothing.; Additional information:

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation.;



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## 6.2 Environmental precautions

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

# 6.3 Methods and material for containment and cleaning up

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

## 6.4 Reference to other sections

Additional information:

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

# 7.1 Precautions for safe handling

Protective measures:

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

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

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

## 7.2 Conditions for safe storage, including any incompatibilities

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

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

## 7.3 Specific end uses:

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

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Preliminary remark:

# 8.1.1 Occupational exposure limits:

OSHA (USA)

Source :	Occupational Safe	cupational 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)					
67-68-5 / 200-664-3	200-664-3	67-68-5									



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Source :	TRGS 903, November 2015, BAuA						
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)			
67-68-5 / 200-664-3	200-664-3	67-68-5					

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

DNEL worker

Source :	GESTIS – su	ESTIS – substance database										
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	Isystemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects			
67-68-5 / 200-664-3	200-664-3	67-68-5				265-265	484-484					

## • DNEL consumer

Source :	GESTIS – sı	STIS – substance database									
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	systemic effects	Acute – inhalation, local effects (mg/m3)	systemic effects	Long-term – inhalation, local effects (mg/m3)	systemic effects		
67-68-5 / 200-664-3	200-664-3	67-68-5									

# PNEC

Source :	INERIS																
Substance			PNEC AQUATIC									PNEC Sediment					
	EC-No.	C-No. CAS-No		freshwater			marine water			intermittent release			freshwater		marine water		
	EC-NO.		(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
67-68-5 / 200-664-3	200-664-3	67-68-5															

Source :	INERIS													
Substance		CAS-No	Others											
	EC-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)
67-68-5 / 200-664-3	200-664-3	67-68-5												



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## 8.2 Exposure controls

# 8.2.1 Appropriate engineering controls:

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

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

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

Skin protection: Gloves;

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

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

Consumer exposure control

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

Measures related to the service life of the substance in articles:

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

# 9.1 Information on basic physical and chemical properties

# **Appearance**

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

			Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
pΗ		7	(moly L)					
Melting point (°C	<u>:)</u>							
Freezing point (°	C)							
Initial boiling poi	nt/boiling	range (°C)						
Flash point (°C)								
Evaporation rate	(kg/m <sup>2</sup> /h)							
Flammability (typ	oe : ) (%)							
Upper/low flammability or e limits		Upper explosive limit (%)						
		Lower explosive limit (%)						
Vapour pressure (kPa)								
Vapour density (g/cm³)								
		Density (g/cm³)						
Densitie	S	Relative density (g/cm³)						
		Bulk density (g/cm³)						
		Critical density (g/cm³)						
Solubility (Type: ) (g/L)								
Partition coefficient (log Pow) n-octanol/water at pH :								
Auto-ignition ter	nperature	(°C)						
Decomposition temperature (°C) Decomposition energy : kJ								
Viscosity	V	Viscosity, dynamic (poiseuille)						
		Viscosity, cinematic (cm³/s)						
	Explo	osive properties						
	Oxid	ising properties						

## 9.2 Other information:

No other relevant data available



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# **SECTION 10: STABILITY AND REACTIVITY**

# 10.1 Reactivity

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

- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:
- 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

## SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

# 11.1 Information on toxicological effects

## 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:

In-vitro skin test method: In-vitro skin test result:



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Assessment / Classification:

Eye damage/irritation

Anima	l data:

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

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

Animal data:

Assessment / Classification:

Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

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

Animal data:

Other information:

o STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

• Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:



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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

<u>Toxicity to microorganisms and other aquatic plants / organisms</u>

Assessment / Classification:

# 12.2 Persistence and degradability

**Biodegradation:** 

**Abiotic Degradation:** 

Assessment / Classification:

## 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

# 12.4 Mobility in soil



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## 12.5 Results of PBT and vPvB assessment

# 12.6 Other adverse effects:

Additional ecotoxicological information:

#### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation.;

Other disposal recommendations:

Additional information:

#### SECTION 14: TRANSPORT INFORMATION

## ADR/RID/AND/IMDG/IATA

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

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

Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Limited quantities for ADR/RID: Excepted Quantities for ADR/RID:

Packing Instructions for ADR/RID:

Special packing provisions for ADR/RID:

Mixed packing provisions: Portable tanks and bulk containers Instructions:

Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage: Special provisions for carriage Packages:

Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

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

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:



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Limited quantities ADN: Excepted quantities ADN: Carriage permitted: Equipment required:

Provisions concerning loading and unloading:

Provisions concerning carriage: Number of blue cones/lights:

Remark:

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

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions:

Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity:

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

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

ERG code: Special Provisions for IATA:

#### SECTION 15: REGULATORY INFORMATION

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

# 15.2 Chemical Safety Assessment:

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

# **SECTION 16: OTHER INFORMATION**

# 16.1 Indication of changes

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

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

See SECTION 2.1 (classification).

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

