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### **SECTION 1 – PRODUCT IDENTIFICATION / MANUFACTURER**

Trade name and synonym: CGRP Affinity Sorbent

Catalogue number: A19482 CAS number: None Applicable

Intended Product Use: Intended for research use only

Manufacturer: BERTIN PHARMA

Parc d'Activités Pas du Lac 10 bis, avenue Ampère

F-78180 Montigny-le-Bretonneux, France

**Telephone Number:** 33 (1) 39 30 62 60 **Fax Number:** 33 (1) 39 30 62 99

**Hours of Operation:** 9:00 am to 5:00 pm EU CT (GMT+1) bioreagent@bertinpharma.com

Emergency telephone number: ORFILA / I.N.R.S. +33 1 45 42 59 59

### **SECTION 2 – HAZARDS IDENTIFICATION**

GHS Identification: None Applicable

Symbols: None Applicable

Warning mention: None Applicable

Hazard mention: Components contained in the Human Acylated Ghrelin EIA kit are non-hazardous substances for

health and environment in said concentrations (they are mixtures that contain less than 1% hazardous

chemicals and less 0.1% carcinogenic chemicals).

### **GHS Precautionary Statements:**

### **Prevention**:

P281: Use personal protective equipment as required

P264: wash hands thoroughly after handling P262: Do not get in eyes, on skin or on clothing

Response:

P308+P314: if exposed or concerned: get medical advice/attention if you feel unwell.

Storage:

P403+P233: Store in a well ventilated place. Keep container tightly closed.

**Elimination**:

P501 : dispose of content / container in accordance with local regulations.

**REACH Identification:** None Applicable

Symbols: None Applicable
Symbol Letter: None Applicable
Hazard: None Applicable
Risk Phrase: None Applicable

#### **SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

# **Identification of Dangerous Components**

This product contains the substances listed below, which are defined as dangerous substances or hazardous chemicals as defined in European Community Directives 67/548/EEC or 1999/45/EC, and Hazard Communication Standard 29 CFR 1910.1200.

Dangerous component	EINECS N°	CAS N°	Content (weigh t	EU Hazard	R Phrases	3
			percent)	Symbol Letter		
Sodium azide	247-852-1	26628-22-8	0.1%	T+, N	R28,	R32,



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					R50/53	
Component A	None	Trade secret	< 1%	Xn, N	R22,	R41,
					R51/53	

### **Identification of Components Not Classified as Dangerous**

This product contains the substances listed below, which are not defined as dangerous substances or hazardous chemicals as defined in European Community Directives 67/548/EEC or 1999/45/EC, and Hazard Communication Standard 29 CFR 1910.1200.

Non Dangerous component	EINECS N°	CAS N°	Content (volume percent)	EU Hazard Symbol Letter	R Phrases
CGRP Affinity sorbent	NA	NA	30%	None	None
Potassium phosphate dibasic	231-834-5	7758-11-4	Trade secret	None	None
Potassium phosphate monobasic	231-913-4	7778-77-0	Trade secret	None	None
Sodium chloride	231-598-3	7647-14-5	Trade secret	None	none
Albumin	232-936-2	9048-46-8	Trade secret	None	None
Component A	None	Trade secret	< 1%	Xn, N	R22, R41, R51/53

#### **SECTION 4 – FIRST AID MEASURES**

**After Inhalation**: If a person inhales large amounts of the product, move the exposed person to fresh air at once. If breathing is difficult or stops, seek immediate medical attention.

**After Skin contact**: If the product contacts the skin, immediately flush the contaminated skin with mild soap and water. If this chemical penetrates clothing immediately remove the clothing and flush the skin with water. Seek medical attention immediately.

**After eye contact**: If the product contacts the eyes, promptly wash (irrigate) the eyes with large amounts of tepid water for at least 15 minutes, occasionally lifting the lower and upper lids. Seek medical attention immediately.

**After swallowing**: wash out mouth with water provided person is conscious. Seek medical attention. Never give an unconscious person anything by mouth

**Information for Doctor**: Show the product label or this MSDS.

### **SECTION 5 – FIRE FIGHTING MEASURES**

### Extinguishing media:

Suitable: water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Special risks: None indentified

Thermal decomposition: no thermal decomposition degradation products are expected

Specific hazard(s): None indentified

Special protective equipment for fire-fighters: None indentified

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Procedure(s) of personal precaution(s)**: wear suitable laboratory protective equipment lab coats, gloves and safety glasses.

**Measure for Environmental protection**: avoid penetration into sewerage systems, surface and ground water. Avoid soil pollution.

**Methods for cleaning up**: sweep up with suitable absorbing material, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.



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### **SECTION 7 – HANDLING AND STORAGE**

**Storage**: keep tightly closed. Store at +4℃ in a dark and dry place.

**Handling**: Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment (See Section 8) to prevent chemical exposures. Wash hands with soap and water before eating, drinking, or touching common items (phone, computer, etc.) to prevent cross contamination. Use this product with adequate ventilation. Do not breathe the vapour.

### **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Exposure Limit Values</b>	OSHA PEL	NIOSH REL	ACGIH TLV	Other
CGRP affinity sorbent	Not Listed	Not Listed	Not Listed	None
Sodium azide	Not Listed	Not Listed	Ceiling 0.29mg/m <sup>3</sup>	None
Potassium phosphate dibasic	Not Listed	Not Listed	Not Listed	None
Potassium phosphate	Not Listed	Not Listed	Not Listed	None
monobasic				
Sodium chloride	Not Listed	Not Listed	Not Listed	None
Albumin	Not Listed	Not Listed	Not Listed	None
Component A	Not Listed	Not Listed	Not Listed	None

General hygiene measures: do not eat, drink and smoke when working with the kit.

Engineering controls: Mechanical exhaust required.

Personal protective equipment:

Respiratory protection: none

Eye protection: chemical safety glasses, with side shields.

Hand protection: Compatible chemical-resistant gloves (wash you hands before and after work).

Body protection: protective clothing

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

Physical state (at +20℃): Solid particles in aqueous buffers

Colour: No data available
Smell (odour): Odourless
pH value (at 25 °C): 6.8 - 7.4

Melting point (°C): No data available Initial Boiling point (°C): No data available Flash point (C): No data available Flammability: No data available Vapour tension (°C): No data available Solubility in water: No data available Partition coefficient a-octanol/water: No data available Auto-ignition temperature No data available Decomposition temperature No data available **Viscosity** No data available

### **SECTION 10 – STABILITY AND REACTIVITY**

Stability: Product is stable under normal operating conditions and use as described in the product technical data sheet.

Conditions to be avoided: heat, light

Materials to avoid: Strong acids or bases, strong oxidizers, and extreme temperatures.

Hazardous decomposition products: Heating to decomposition temperature may produce carbon monoxide, carbon

dioxide, nitrogen oxides.

Risk of hazardous reaction: No hazardous reaction known



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### **SECTION 11 – TOXICOLOGICAL INFORMATION**

**Toxicology Data:** Components contained in this kit are non-hazardous substances for health and environment in said concentrations. Toxicological information for this product as a whole does not exist, below is data for the individual components.

Acute Toxicity	Toxicity Test	Exposure route	Dose	Observed effect
Sodium azide	LD50 (rat)	Oral	27mg/kg	None Applicable
Sodium azide	LC50 (rat)	Inhalation	37mg/m3	Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Behavioural: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Structural or functional change in trachea or bronchi.
Sodium azide	LD50 (rabbit)	Dermal	20mg/kg	None Applicable
Component A	LD50 (rat)	Oral	500mg/kg	None Applicable
Component A	LD50(rabbit)	Dermal	8000mg/kg	None Applicable

Skin corrosion/irritation: No data available

**Serious Eye Damage/Eye Irritation:** 

Corrous Lyo Barriago, Lyo ir ritation.						
Component A	Eye irritation (rabbit)	Eye		Severe eye irritation		

Respiratory or Skin Sensitization No data available

Germ Cell Mutagenicity: No data available Reproductive Toxicity: No data available STOST-Single Exposure: No data available STOST-Repeated Exposure: No data available

Aspiration Hazard: No data available

Carcinogenicity: Carcinogenetic information for this product as a whole does not exist. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

#### Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes eye burns.

### Signs and Symptoms of Exposure

Nausea, Headache, Vomiting, Laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibbers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects.

To the best of our knowledge, the chemical, physical, and toxicological properties of each component of this product have not been thoroughly investigated.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity**: Ecotoxicity information for this product as a whole does not exist, below is data for the individual components Sodium azide Toxicity to fish: LC50 - Lepomis macrochirus - 0,68 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia pulex (Water flea) - 4,2 mg/l - 48 h

Component A Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 8,9 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia - 26 mg/l - 48 h

Persistence and degradability: No data available

Bioaccumulation: No data available



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Mobility in the ground: No data available

Other adverse effects: Sodium azide very toxic to aquatic life

#### **SECTION 13 - DISPOSAL CONSIDERATION**

**Substance disposal**: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

**Contaminated packaging**: Dispose the container in accordance with the international, federal, state and local requirements.

### **SECTION 14 - TRANSPORT INFORMATION**

UN Number / Class / proper shipping name: Not listed, not dangerous goods.

**Land Transport RID/ADR**: as a mixture, the product is subject to no limitation for road transport. **Maritime Transport IMDG**: as a mixture, the product is subject to no limitation for sea transport.

Air Transport IATA: as a mixture, the product is subject to no limitation for air transport.

Additional information: No additional information

#### **SECTION 15 - REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **Category of Danger**

T+ very toxic

N dangerous for the environment

Xn harmful

#### Risk phrases:

R22 Harmful if swallowed

R28 very toxic if swallowed

R32 contact with acids liberates very toxic gas

R41 Risk of serious damage to eyes.

R50/53 very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Training advice: seek effective chemical handling training to reduce the hazards associated with this product prior to use.

### **SECTION 16 – OTHER INFORMATION**

License granted to make unlimited paper copies for internal use only.

The material safety data sheet contains data necessary to ensure safety and health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a chemical mixture and can be solely used by persons with chemical education at their own risk.



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This product is designed for research and development use only. Not for drug, household or other uses. The manufacturer has no responsibility for damage caused by unsuitable use and by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Pharma makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.