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## Convulxin

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

#### 1.1 Product Identifier

**Product name:** Convulxin

CAS N°: -

EC N°: -

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

Laboratory chemicals use only (For Research Use Only. For in Vitro Use Only). Any non-intended usage is prohibited.

#### 1.3 Details of the Supplier of the Material Safety Data Sheet

Company name: 5-Diagnostics

Address: Heuberg 7, 4051 Basel, Switzerland

#### **Contact information for 5-Diagnostics**

Email: [info@5-diagnostics.com](mailto:info@5-diagnostics.com)

Internet: [www.5-diagnostics.com](http://www.5-diagnostics.com)

Tel: +41 61 551 55 14

#### 1.4 Emergency telephone number: 112 (European emergency number)

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1 Substance or Mixture Classification


Glycoprotein, heterodimeric C-type lectin MW: approx.. 84,000 daltons.

#### 2.2 Label Elements

**Regulation (EC) No. 1272/2008**

#### **Precautions Statements:**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P233	Keep container tightly closed.
P234	Keep only in original container.
P262	Do not get in eyes, on skin, or on clothing.

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P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P411+P235+410	Store at temperatures not exceeding 8 °C/46 °F. Keep cool. Protect from sunlight.

### 2.3 Other Hazards

The substances in the mixture do not comply with the criteria of PBT/vPvB based on REACH, annex XIII. No risks worthy of mention. Please keep in mind the information stated in the safety data sheet.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCE

Not applicable.

### 3.2 MIXTURES

#### Chemical Characterization:

Protein obtained from natural sources.

#### Composition:

Chemical Name	Glycoprotein, heterodimeric C-type lectin
Molecular Weight	approx. 84,000 daltons

## SECTION 4 : FIRST AID MEASURES

### 4.1 Description of First-aid Measures

#### First-aid Measures General:


Never give anything by mouth to an unconscious person. Seek medical advice immediately in case of accident or unwellness (show the label where possible).

#### First-aid Measures After Inhalation:

Go into open air and ventilated suspected area. Keep at rest. In case of respiratory tract irritation, consult a physician.

#### First-aid Measures After Skin Contact:

Remove contaminated clothing. Wash with plenty of soap and water. In case of skin irritation, obtain medical treatment.

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***First-aid Measures After Eye Contact:***

Rinse cautiously with flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do so. Afterwards, get medical advice.

***First-aid Measures After Ingestion:***

Rinse mouth thoroughly with water. Do not induce vomiting. Obtain medical attention.

**4.2 Most Important Symptoms and Effects Both Acute and Delayed**

No Information Available.

**4.3 Indication of any immediate medical attention and special treatment needed.**

Treat symptomatically.

**SECTION 5 : FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

***Suitable Extinguishing Media***

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

***Unsuitable extinguishing media***

High power water jet.

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

In the event of fire, the following can be released: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

**5.3 Advice for firefighters**

In case of fire: Do not enter fire area without proper protective equipment, including respiratory protection. Do not allow extinguishing water to enter sewer or any water course. Do not breathe fire/explosive fumes.

**Further Information**


Collect contaminated fire extinguishing water separately. Do not allow run-off from firefighting to enter drains or water courses. Coordinate firefighting measures to the fire surroundings.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

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

Do not get in eyes, on skin, or on clothing. Dust formation to be avoided. No smoking. Do not breathe the dust. Use appropriate personal protective equipment (PPE).

**6.2 Environmental precautions**

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Discharge into the environment must be avoided.

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

**For Containment:** Contain any spills with dikes or absorbent to prevent migration. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods of Cleaning Up:** Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal : see section 13

## SECTION 7 : HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### ***Advice on Safe Handling***

Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Do not breathe mist, spray, vapors. Handle empty containers with care because they may still present a hazard. Use appropriate personal protective equipment (PPE) (refer to section 8).

#### ***Advice on protection against fire and explosion***

Usual measures for fire prevention. Dust clouds may present an explosion hazard.

#### ***Additional Information on handling***

Generation of dust must be avoided. General protection and hygiene measures: refer to chapter 8.

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

#### ***Requirements for storage rooms and vessels***


Keep the container tightly closed.

#### ***Advice on storage compatibility***

Do not store together with explosives, oxidizing solids, oxidizing liquids, radioactive substances and infectious substances.

#### ***Recommended storage temperature***

Value: -20° C

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### ***Requirements for storage rooms and vessels***

Containers which are opened must be carefully closed and kept upright to prevent leakage.

Keep the packing dry and well-sealed to prevent contamination and absorption of humidity.

### **7.3 Specific end use(s)**

Aside from the uses mentioned in section 1.2., no other specific uses are stipulated.

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

### **8.1 Control parameters**

#### ***Occupational exposure limit values***

No data available.

#### ***Biological limit values***

No data available.

### **8.2 Exposure controls**

#### ***Appropriate engineering controls***

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Dust should be exhausted directly at the point of origin. Always close containers tightly after the removal of precuts. Any measure taken shall comply with good hygiene practice.

#### ***Personal Protective Equipment***

During handling the product, use appropriate protective clothing in compliance with the applicable rules. When using the product do not eat, drink, smoke, and sniff. Wash hands before breaks and after work.

#### ***Respiratory protection***

The proper usage of product and under normal conditions does not required breathing protection.


#### ***Environmental exposure controls***

No special precautionary measures are needed. Avoid release to the environment.

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

### **9.1 Information on basic physical and chemical properties**

PROPERTIES	
Appearance	Lyophilised Powder
Color	White

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Odour	Odourless
pH value	5-7
Melting point	Slow decomposition
Boiling point	NA
Flash point	NA
Sustaining combustion	Non sustaining combustion
Explosive properties	NONE
Oxidizing properties	NONE
Water solubility	SOLUBLE
Flow time	NA
Vapour density	NA
Evaporation rate	NA
Solvent separation test	NA

**Legend:** NA (not applicable), ND (not determined/no data available)

## 9.2 Further information

**Solid content:** ND (not determined)

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1 Reactivity

No information available.

No dangerous reactions known if handled in compliance with applicable provisions/under normal conditions of use.

### 10.2 Chemical stability

Decomposition takes place from temperature above 40°C.

### 10.3 Possibility of hazardous reactions

No information available

### 10.4 Conditions to avoid.

Protect against exposure to heat, sunlight, and UV radiation.

### 10.5 Incompatible materials


Avoid strong oxidizing agents and strong reducing agents' materials.

### 10.6 Hazardous decomposition products

In case of fire incident, can release carbon monoxide carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

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Acute effects:

Snake venom derivative. Prolonged or repeated exposure may cause allergic skin reactions in certain sensitive individuals. Harmful if swallowed, inhaled or absorbed through skin. Exposure can cause blood effects. Promotes activation of human platelets. The toxicological properties have not been thoroughly investigated. Target organ: blood (platelets)

## SECTION 12 : ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity	
<b>Fish toxicity</b> - Acute - Chronic	ND
<b>Daphnia toxicity</b> - Acute - Chronic	ND
<b>Algae toxicity</b> - Acute - Chronic	ND
<b>Bacteria toxicity</b> - Acute - Chronic	ND

**Legend:** NA (not applicable), ND (not determined/no data available)

### 12.2 Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not comply the PBT/vPvB criteria based on REACH, annex XIII.

### 12.6 Other adverse effects


No data available.

### Additional information

Do not allow to enter into surface water or drains.

## SECTION 13 : DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

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### **Product**

Waste must be disposed in compliance with national rules and regulations and it can be consulted with your available environmental services. Waste disposal code is established with your designated regional waste disposer.

### **Packaging**

Completely emptied packaging or empty packaging containing residues must be disposed properly. Seek consultation from your designated regional waste disposer.

## **SECTION 14 : TRANSPORT INFORMATION**

The product is not covered by international regulations on transport of dangerous goods (IMDG, IATA, ADR/RID).

## **SECTION 15 : REGULATORY INFORMATION**

**15.1 European information caution:** Substance not yet fully tested

**15.2 Risk phrases:** May cause sensitization by inhalation and skin contact

**15.3 Safety phrases:**

S22 Do not breathe dust

S24/25 Avoid contact with skin and eyes

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S45 In case of accident or if you feel unwell, seek medical advice immediately

## **SECTION 16 : OTHER INFORMATION**

### **16.1 Key literature references and data sources**

This data safety sheet is according to the current version of Regulation EC 1907/2006(REACH), Regulation (EC) 1272/2008 (CLP). The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section of this SDS.

The above information describes exclusively the safety requirements of the product and based on our present-day knowledge and experience. The information mention above is intended to provide advices of safety handling of the product for storage, processing, transport and disposal, etc. This information is only intended for this product and can not be transfer to other products. Mixing this product with other products or in case of processing, the information on this safety data sheet is no longer valid for a new processed material.

5-Diagnostics and its appointed agents/distributors will not be held liable for any damage(s) resulting from or from contact with the products included in the kit.


### **16.2 Abbreviations and acronyms**

**ADR:** European Agreement Concerning the International Carriage of Dangerous Goods by Road

**CAS:** Chemical Abstracts Service

**CLP:** European Regulation on Classification, Labelling and Packaging of Substances and Mixtures



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**CMR:** Carcinogenic, Mutagenic or Toxic to Reproduction

**DNEL:** Derived NO Effect Level

**IARC:** International Agency for Research on Cancer

**IATA-DGR:** International Air Transport Association- Dangerous Goods Regulations

**IMDG:** International Maritime Code for Dangerous Goods

**ICAO:** International Civil Aviation Organization

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals

**NIOSH:** National Institute for Occupational Safety and Health in the U.S.

**NTP:** National Toxicology Program

**PBT:** Persistent Bioaccumulative Toxic

**REACH:** Union European Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

**RID:** International Rule for Transport of Dangerous Substances by Rail

**TSCA:** Toxic Substances Control Act

**VOC:** Volatile Organic Compounds

**vPvB:** Very Persistent, Very Bioaccumulative