



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 Product name : Convulxin
1.2 Product code : 119-02
1.3 Manufacturer : PENTAPHARM LTD.
Engelgasse 109
P.O. Box
4002 BASEL / SWITZERLAND

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.1 Chemical characterisation : Glycoprotein, heterodimeric C-type lectin
(MW approx. 84'000 daltons)
2.2 Hazardous ingredients : None
2.3 CAS-No. : -
2.4 EINECS-No. : -
2.5 E.C. : -

3. HAZARD IDENTIFICATION

3.1 Physical/chemical hazards : This product is not dangerous according to the EC regulations.
3.2 Environmental hazards : The data available do not support any environmental hazard.
3.3 Human health hazards : May cause sensitization by inhalation, in contact with the skin and if swallowed. May be fatal if enters bloodstream.
Target organ: blood (platelets)

4. FIRST AID MEASURES

4.1 Skin Contact : Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before wearing. Consult a physician.
4.2 Ingestion : If swallowed wash out mouth with water provided person is conscious. Consult a physician
4.3 Inhalation : Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen and consult a physician. If breathing stops, give artificial respiration and consult a physician.
4.4 Eye Contact : Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.

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5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing media : Water, CO₂, foam, dry chemical
5.2 Unsuitable extinguishing media : None known
5.3 Unusual firefighting hazards : None known
5.4 Special firefighting procedure : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
5.5 Other recommendations : none

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions : Wear respirator, safety goggles and rubber gloves.
6.2 Precautions to protect the environment : The data available do not support any environmental hazard.
6.3 Cleanup procedures : Sweep up, place in a suitable container and hold for appropriate waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is completed.

7. HANDLING AND STORAGE

- 7.1 Handling precautions : Avoid contact with the material. Avoid prolonged or repeated exposure. Lab should be equipped with a safety shower and an eye wash station. Wash thoroughly after handling material.
7.2 Storage precautions : None
7.3 Other information : Store below -20°C upon receipt.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1 Exposure controls : none
8.2 Engineering control measures : No special control measures necessary.
8.3 Personal protective equipment
Respiratory protection : Appropriate respirator
Hand protection : Gloves
Eye protection : Safety glasses
Skin protection : Protective clothing
Other : Handle in a chemical fume hood with adequate ventilation

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance		
Physical state	:	Lyophilized solid
Colour	:	White
Odour	:	-
9.2 Safety related information		
pH	:	Not applicable
Boiling point/boiling range	:	Not applicable
Melting point/melting range	:	Not determined
Flash point	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Autoflammability	:	Not applicable
Explosive properties	:	Not applicable
Oxidizing properties	:	Not applicable
Vapour pressure	:	Not applicable
Relative density	:	Not applicable
Water solubility	:	Soluble
Fat solubility	:	Insoluble
n-octanol/water partition coefficient	:	Not determined
Vapour density (air = 1)	:	Not determined
Viscosity	:	Not determined
Volatiles	:	Water, < 2%

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid	:	Heat
10.2 Materials to avoid	:	None known
10.3 Hazardous decomposition products	:	Nature of decomposition products not known

11. TOXICOLOGICAL INFORMATION

11.1 Acute effects:
 Snake venom derivative. Prolonged or repeated exposure may cause allergic 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)

**12. ECOLOGICAL INFORMATION**

- 12.1 Mobility : Data not yet available.
12.2 Persistence and degradability : Data not yet available
12.3 Bioaccumulative potential : Data not yet available
12.4 Ecotoxicity : Data not yet available
12.5 Other information : none

13. DISPOSAL CONSIDERATIONS

- 13.1 Product disposal : 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.
13.2 Packaging disposal : Disposal according to the local and national legislation.

14. TRANSPORT INFORMATION

- 14.1 UN-No. : Not applicable
14.2 Road and rail transport : This product is not classified according to ADR/RID
14.3 Air transport : This product is not classified according to ICAO/IATA-DGR
14.4 Sea transport : This product is not classified according to IMO/IMDG
14.5 Inland navigation : This product is not classified according to ADN/ADNR
14.6 Other information : None

15. REGULATORY INFORMATION

- 15.1 European information
Caution : Substance not yet fully tested.
15.2 Risk Phrases
R 42/43 : 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

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16. OTHER INFORMATION

Material should only be handled by qualified, experienced professionals. All information and instructions provided in this Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on this Safety Data Sheet. PENTAPHARM Ltd. shall not be held responsible for any defect in the product covered by this Safety Data Sheet, should the existence of such a defect not be detectable considering the current state of scientific and technical knowledge.