

SAFETY DATA SHEET

Product name: LISINOPRIL DIHYDRATE		SDS Date: 10.05.2000 Page 1 of 2
1. Chemical product and company identification		
1.1.	Commercial product name:	LISINOPRIL DIHYDRATE
1.2.	Company identification:	CHEMO SA
2. Composition		
2.1.	Chemical characterization Developed formula: (S)-1-[N ² -(1-Carboxy-3-phenylpropyl)-L-tyrosyl]-L-proline dihydrate	
	Chemical formula = C ₂₁ H ₂₇ N ₃ O ₇ ·2H ₂ O	M.W. = 441.52
2.2.	Form: Crystalline powder	2.3. Colour: White 2.4. Odour:
3. Hazards identification		
Effect(s) of overexposure: Unpleasant symptoms may be developed only when the dust of the substance is swallowed: decrease of blood pressure, vertigo, headache fatigue, nausea diarrhea.		
4. First-aid measures		
Inhalation: Remove to fresh air. Obtain medical attention. Skin: Flush with copious quantities of water Eyes: Flush with copious quantities of water Ingestion: Flush out mouth with water. Obtain medical attention.		
5. Fire-fighting measures		
5.1.	Extinguishing media Suitable: Not to be used:	Water, spray, dry chemical, carbon dioxide or foam
5.2.	Protective equipment:	The personnel must wear appropriate clothes with autonomous respirator
6. Accidental release measures		
6.1.	After spillage/leakage/gas leakage:	Carefully collect the substance, wrap up and store in closed container for destruction.
6.2.	Personal precautions:	

Product name: LISINOPRIL		SDS Date: 10.05.2000 Page 2 of 2	
7. Handling and storage			
7.1. Handling:	Avoid contact with skin and eyes		
7.2. Storage:	Store in well closed containers		
8. Exposure control / personal protection			
8.1. Industrial hygiene:	Avoid contact with eyes, skin or clothing. Avoid breathing dust. In case of insufficient ventilation, wear respiratory protection. Wash thoroughly after handling.		
8.2. Respiratory protection:	NIOSH approved respirator		
	Eye protection: Safety goggles		
	Hand protection: Rubber gloves		
	Skin protection: Suitable clothes		
9. Physical data and safety data			
9.1. Change in physical state:			
Melting point		Around 160	EC
9.2. Density	(20°C)		g/cm ³
Bulk density			Kg/m ³
9.3. Vapour pressure	(EC) appr. (EC)		mbar mbar
9.4. Viscosity	(EC)		
9.5. Solubility in water	(20°C)	97	mg/ml
in methanol	(20°C)	14	mg/ml
9.6. pH value (in g/l H ₂ O)	(20°C)		
9.7. Flash point			EC
9.8. Ignition temperature			EC
9.9. Explosion limits	Lower: ---	Upper: ---	
9.10. Thermal decomposition			EC
9.11. Hazardous decomposition products		Co, CO ₂ , NO _x	
9.12. Hazardous reactions			
9.13. Further information:			

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Product name: LISINOPRIL	SDS Date: 10.05.2000 Page 3 of 3
10. Stability and reactivity	
10.1. Conditions to avoid:	
10.2. Materials to avoid: Acids, alkalies	
10.3. Hazardous decomposition products: Emits toxic fumes of CO ₂ , CO, and NO _x	
11. Information on toxicity	
11.1. Acute toxicity: NOTE: Data not for the dehydrate, but for the water-free material: DL ₅₀ : >8500 mg/kg oral rat. >9100 oral mouse	
11.2. Irritation of skin: Irritation of eye: Irritation of respiratory tract: Yes	
12. Information of ecological aspects	
13. Disposal considerations	
Disposal of waste in accordance with all applicable laws.	
14. Transport information	
Not restricted	
15. Regulatory information	
CAS Number: 83915-83-7 R phrases: S phrases:	
16. Further information	
The information contained herein is applicable solely to the chemical substance when used as Bulk Pharmaceutical Chemical and does not relate to any other use of the substance described. The information has been developed by us from sources considered reliable but has not been independently verified by us. Therefore we can not guarantee the accuracy of the information in these sources.	

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Signature Page

Lisinopril dihydrate

Approver

Meaning

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