

MATERIAL SAFETY DATA SHEETS

DATE: 27-08-2026

1.IDENTIFICATION

1.1 GHS PRODUCT IDENTIFIER

Product Name	Losartan EP Impurity M
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1.2 OTHER MEANS OF IDENTIFICATION

Product Name	Losartan EP Impurity M
Other names	[2-Butyl-1-[[[2-[[[2-butyl-4-chloro-1-[[[2-[[[1H-tetrazol-5-yl]biphenyl-4-yl]methyl]-1H-imidazol-5-yl]methyl]-2H-tetrazol-5-yl]biphenyl-4-yl]methyl]-4-chloro-1H-imidazol-5-yl]methanol

1.3 RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Identified uses	Industrial and scientific research uses
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Uses advised against	No data available
1. Use of force 2. Use of arms 3. Use of weapons 4. Use of explosives 5. Use of chemical weapons 6. Use of biological weapons 7. Use of nuclear weapons 8. Use of space weapons 9. Use of cyber weapons 10. Use of information warfare 11. Use of psychological warfare 12. Use of economic warfare 13. Use of cultural warfare 14. Use of religious warfare 15. Use of racial warfare 16. Use of ethnic warfare 17. Use of tribal warfare 18. Use of regional warfare 19. Use of global warfare 20. Use of nuclear terrorism 21. Use of chemical terrorism 22. Use of biological terrorism 23. Use of space terrorism 24. Use of cyber terrorism 25. Use of information terrorism 26. Use of psychological terrorism 27. Use of economic terrorism 28. Use of cultural terrorism 29. Use of religious terrorism 30. Use of racial terrorism 31. Use of ethnic terrorism 32. Use of tribal terrorism 33. Use of regional terrorism 34. Use of global terrorism 35. Use of nuclear war 36. Use of chemical war 37. Use of biological war 38. Use of space war 39. Use of cyber war 40. Use of information war 41. Use of psychological war 42. Use of economic war 43. Use of cultural war 44. Use of religious war 45. Use of racial war 46. Use of ethnic war 47. Use of tribal war 48. Use of regional war 49. Use of global war 50. Use of nuclear conflict 51. Use of chemical conflict 52. Use of biological conflict 53. Use of space conflict 54. Use of cyber conflict 55. Use of information conflict 56. Use of psychological conflict 57. Use of economic conflict 58. Use of cultural conflict 59. Use of religious conflict 60. Use of racial conflict 61. Use of ethnic conflict 62. Use of tribal conflict 63. Use of regional conflict 64. Use of global conflict 65. Use of nuclear aggression 66. Use of chemical aggression 67. Use of biological aggression 68. Use of space aggression 69. Use of cyber aggression 70. Use of information aggression 71. Use of psychological aggression 72. Use of economic aggression 73. Use of cultural aggression 74. Use of religious aggression 75. Use of racial aggression 76. Use of ethnic aggression 77. Use of tribal aggression 78. Use of regional aggression 79. Use of global aggression 80. Use of nuclear attack 81. Use of chemical attack 82. Use of biological attack 83. Use of space attack 84. Use of cyber attack 85. Use of information attack 86. Use of psychological attack 87. Use of economic attack 88. Use of cultural attack 89. Use of religious attack 90. Use of racial attack 91. Use of ethnic attack 92. Use of tribal attack 93. Use of regional attack 94. Use of global attack 95. Use of nuclear strike 96. Use of chemical strike 97. Use of biological strike 98. Use of space strike 99. Use of cyber strike 100. Use of information strike 101. Use of psychological strike 102. Use of economic strike 103. Use of cultural strike 104. Use of religious strike 105. Use of racial strike 106. Use of ethnic strike 107. Use of tribal strike 108. Use of regional strike 109. Use of global strike 110. Use of nuclear assault 111. Use of chemical assault 112. Use of biological assault 113. Use of space assault 114. Use of cyber assault 115. Use of information assault 116. Use of psychological assault 117. Use of economic assault 118. Use of cultural assault 119. Use of religious assault 120. Use of racial assault 121. Use of ethnic assault 122. Use of tribal assault 123. Use of regional assault 124. Use of global assault 125. Use of nuclear invasion 126. Use of chemical invasion 127. Use of biological invasion 128. Use of space invasion 129. Use of cyber invasion 130. Use of information invasion 131. Use of psychological invasion 132. Use of economic invasion 133. Use of cultural invasion 134. Use of religious invasion 135. Use of racial invasion 136. Use of ethnic invasion 137. Use of tribal invasion 138. Use of regional invasion 139. Use of global invasion 140. Use of nuclear occupation 141. Use of chemical occupation 142. Use of biological occupation 143. Use of space occupation 144. Use of cyber occupation 145. Use of information occupation 146. Use of psychological occupation 147. Use of economic occupation 148. Use of cultural occupation 149. Use of religious occupation 150. Use of racial occupation 151. Use of ethnic occupation 152. Use of tribal occupation 153. Use of regional occupation 154. Use of global occupation 155. Use of nuclear control 156. Use of chemical control 157. Use of biological control 158. Use of space control 159. Use of cyber control 160. Use of information control 161. Use of psychological control 162. Use of economic control 163. Use of cultural control 164. Use of religious control 165. Use of racial control 166. Use of ethnic control 167. Use of tribal control 168. Use of regional control 169. Use of global control 170. Use of nuclear domination 171. Use of chemical domination 172. Use of biological domination 173. Use of space domination 174. Use of cyber domination 175. Use of information domination 176. Use of psychological domination 177. Use of economic domination 178. Use of cultural domination 179. Use of religious domination 180. Use of racial domination 181. Use of ethnic domination 182. Use of tribal domination 183. Use of regional domination 184. Use of global domination 185. Use of nuclear supremacy 186. Use of chemical supremacy 187. Use of biological supremacy 188. Use of space supremacy 189. Use of cyber supremacy 190. Use of information supremacy 191. Use of psychological supremacy 192. Use of economic supremacy 193. Use of cultural supremacy 194. Use of religious supremacy 195. Use of racial supremacy 196. Use of ethnic supremacy 197. Use of tribal supremacy 198. Use of regional supremacy 199. Use of global supremacy 200. Use of nuclear hegemony 201. Use of chemical hegemony 202. Use of biological hegemony 203. Use of space hegemony 204. Use of cyber hegemony 205. Use of information hegemony 206. Use of psychological hegemony 207. Use of economic hegemony 208. Use of cultural hegemony 209. Use of religious hegemony 210. Use of racial hegemony 211. Use of ethnic hegemony 212. Use of tribal hegemony 213. Use of regional hegemony 214. Use of global hegemony 215. Use of nuclear dominance 216. Use of chemical dominance 217. Use of biological dominance 218. Use of space dominance 219	

1.4 SUPPLIER'S DETAILS

Company Cleantech Laboratories LLP

Address Plot No.R-80, 2nd Floor, Prama Instruments, TTC Industrial area, Rabale, Navi Mumbai, Maharashtra- 400 701

Telephone 022-27601987

2. HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

NO DATA AVAILABLE

2.2 GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Pictogram(s) No data available

Signal word No data available

Hazard statement(s)	No data available
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Precautionary statement(s)

Prevention	No data available
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Response	No data available
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Storage	No data available
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Disposal	No data available
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Hazard(s) not otherwise	None known
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classified (HNOC)	Pharmaceutical related compound of unknown potency.
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Supplemental information

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

NO DATA AVAILABLE

MOLECULAR FORMULA: C44H44CL2N12O MOLECULAR WEIGHT: 827.8

Chemical name	Common names and synonyms	CAS number
[2-Butyl-1-[[2-[[2-butyl-4-chloro-1-[[2-[[1H-tetrazol-5-yl]biphenyl-4-yl]methyl]-1H-imidazol-5-yl]methyl]-2H-tetrazol-5-yl]biphenyl-4-yl]methyl]-4-chloro-1H-imidazol-5-yl]methanol	NA	230971-72-9

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST-AID MEASURES

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
Call a physician if symptoms develop or persist.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Call a doctor or Poison Control Center immediately.

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

may cause physiological effects

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media

Water, use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Carbon oxides, Nitrogen oxides, Hydrogen fluoride, Sulphur oxides

5.3 SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS

Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid Inhalation of dust from the spilled material. Do not touch damaged containers or spilled material Unless wearing appropriate protective clothing. Ensure adequate ventilation.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in Suitable container for disposal. Clean surface thoroughly to remove residual contamination. For Waste disposal

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry and well-ventilated place

Keep in a dry place.

Storage conditions: Refrigerator

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No exposure limits noted for ingredient

8.2 Appropriate engineering controls

A laboratory fume hood or other appropriate form of local exhaust ventilations

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flammable resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves

Respiratory protection

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as

a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face

supplied air respirator must be used

Thermal hazards

Wear appropriate thermal protective clothing, when necessary

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Colour

Odour

Melting point/ freezing point

Boiling point or initial boiling point and boiling range	
Flammability	
Lower and upper explosion limit / flammability limit	
Flash point	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
pH	
Kinematic viscosity	
Solubility	
Partition coefficient n-octanol/water	
Vapour pressure	NA
Density and/or relative density	NA
Relative vapour density	NA
Particle characteristics	NA

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport

10.2 Chemical stability

Material is stable under normal conditions

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use

10.4 Conditions to avoid

Contact with incompatible materials

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- ORAL LD50: NO DATA AVAILABLE
- INHALATION: NO DATA AVAILABLE
- DERMAL: NO DATA AVAILABLE

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

Based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

There are no data on the ecotoxicity of this product.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

Contaminated packaging Dispose of as above.

14. TRANSPORT INFORMATION

14.1 DOT: Not regulated as dangerous goods

IATA: Not regulated as dangerous goods

14.2 UN Proper Shipping Name

ADR/RID: No data available

IMDG: No data available

IATA: No data available

14.2 UN Proper Shipping Name

ADR/RID: No data available

IMDG: No data available

IATA: No data available

14.3 Transport hazard class(es)

ADR/RID: No data available

IMDG: No data available

IATA: No data available

14.4 Packing group, if applicable

ADR/RID: No data available

IMDG: No data available

IATA: No data available

14.5 Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

14.6 Special precautions for user

No data available

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

It is the shipper's responsibility to determine the correct transport classification at the time of shipment

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

European Union

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

16. OTHER INFORMATION

Abbreviations and acronyms

- CAS: CHEMICAL ABSTRACTS SERVICE
- IATA: INTERNATIONAL AIR TRANSPORTATION ASSOCIATION
- LD50: LETHAL DOSE 50%

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product