

Material Safety Data Sheet

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| Section 1 : Chemical Product Company Identification | |
| Product Name | Amoxicillin Trimer Impurity |
| CAS No. | 2088961-40-2 |
| Identified uses | Pharmaceutical Reference Standard |
| Details of the Supplier Company | SynZeal Research Pvt Ltd Plot No. F, Ganesh Industrial Estate 423/24/8, MahagujaratInd Estate Sarkhej-Bavla Road, Ahmedabad-382 213. Gujarat, India. |
| Telephone | +91-7969225400 |

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| Section 2 : Chemical Information | |
| Chemical Name | (4S,4'S)-2,2'-((1R,7R,13R)-1-Amino-14-(((2S,5R,6R)-2-carboxy-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptan-6-yl)amino)-1,7,13-tris(4-hydroxyphenyl)-2,5,8,11,14-pentaoxo-3,6,9,12-tetraazatetradecane-4,10-diyl)bis(5,5-dimethylthiazolidine-4-carboxylic acid) |
| CAS No. | 2088961-40-2 |
| Synonyms | Amoxicillin Close Ring Trimer |
| Molecular Weight | 1096.2 |
| Molecular Formula | C48H57N9O15S3 |

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| Section 3 : Hazards Identification | |
| Emergency Overview: | |
| Appearance | White Solid |
| Target Organs | NA |
| Potential Health Effects: | |
| Eye | NIL |
| Skin | NIL |
| Ingestion | NIL |
| Inhalation | NIL |
| Chronic | NIL |

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| Hazard Statement: |
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| H302: Harmful if swallowed. |
| H312: Harmful in contact with skin. |
| H315: Causes skin irritation. |
| H319: Causes serious eye irritation. |
| H332: Harmful if inhaled. |
| H335: May cause respiratory irritation. |
| Precautionary Statement: |
| P261: Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P262: Do not get in eyes, on skin, or on clothing. |
| P271: Use only outdoors or in a well-ventilated area. |
| P280: Wear protective gloves/protective clothing/eye protection/face protection. |
| P302 + P352: IF ON SKIN: Wash with plenty of water |
| P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 + P351 +P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313: IF exposed or concerned: Get medical advice/attention. |

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| Section 4 : First Aid Measures | |
| Eye | Wash with plenty of water |
| Skin | Wash with plenty of water |
| Ingestion | Medical assistance for gastric lavage. |
| Inhalation | Remove to fresh air, artificial respiration or oxygen if necessary. |
| Notes to Physician | Amoxicillin Trimer Impurity can be washed with plenty of water in case of any exposure |

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| Section 5 : Firefighting Measures | |
| Extinguishing Media | Carbon dioxide, dry chemical powder, foam, water. |
| Unusual Fire and Explosion Hazards | None indicated |

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| Section 6 : Accidental Release Measures | |
| Personal Precautions | Wear self-contained breathing apparatus, avoid dust formation. |
| Spills/Leaks | Wash with plenty of water, provide adequate ventilation. |

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| Section 7 : Handlings and Storage | |
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| Handling | Wear surgical gloves |
| Storage | Can be stored at room temperature |

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| Section 8 : Exposure Controls, Personal Protection | |
| Respiratory Protection | Self-contained breathing apparatus |
| Exposure Limits | NA |
| Eye Protection | Wear safety goggles |
| Other Protective Equipment | Protective clothing |
| Skin | Full sleeves apron |
| Clothing | Cotton |

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| Section 9 : Physical and Chemical Properties | |
| Appearance | White Solid |
| Odor | Odor less |
| Melting Point | NA |
| pH | Basic |
| Vapor Pressure | NA |
| Vapor Density | NA |
| Evaporation Rate | NA |
| Viscosity | NA |
| Boiling Point | NA |
| Decomposition Temp | NA |
| Auto ignition Temp. | NA |
| Flash Point | NA |
| NFPA Rating | NA |
| Explosion Limits | |
| Lower | NA |
| Upper | NA |
| Solubility | Chloroform, Methanol |
| Specific Gravity/Density | NA |

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| Section 10 : Stability and Reactivity | |
| Chemical Stability | Stable |

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| Conditions to avoid | Direct contact to skin |
| Incompatibilities with other Materials | Keep away |
| Hazardous Decomposition Products | NIL |
| Hazardous Polymerization | NIL |

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| Section 11 : Toxicological Information | |
| CAS | NA |
| LD50/LC50 | NA |
| Carcinogenicity | NIL |
| Epidemiology | NIL |
| Teratogenicity | NIL |
| Reproductive Effects | NIL |
| Neurotoxicity | NIL |
| Mutagenicity | NIL |
| Other Studies | NA |

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| Section 12 : Ecological Information | |
| Data not available | |

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| Section 13 : Disposal Consideration | |
| RCRA P-Series | Can be incinerated |
| RCRA U-Series | NA |

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| Section 14 : Transport Consideration | |
| UN-Number | |
| ADR/RID: IMDG: IATA: | |
| UN proper shipping name | |
| ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods | |
| Transport hazard class(es) | |
| ADR/RID: IMDG: IATA: | |
| Packaging Group | |
| ADR/RID: IMDG: IATA: | |

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| Environmental hazards |
| ADR/RID: No IMDG Marine pollutant: No IATA: No |
| Special precautions for users |
| Further information |

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| Section 15 : Regulatory Information | |
| TSCA | Attached the letter |
| Health and Safety Reporting List | No data available |
| Chemical Test Rules | Chemical analysis report is attached |
| Section 16 : Additional Information | |
| <p>This product is not bioactive, non-radioactive. It is for R and D use only. Not for drug, household or other uses.</p> <p>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. It does not represent any guarantee of the product.</p> | |