

# Material Safety Data Sheet

## Section 1 : Chemical Product Company Identification

Product Name	Piperacillin EP Impurity T
CAS No.	2170771-53-4
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	+91-79410 57012

## Section 2 : Chemical Information

Chemical Name	(2R,4S)-2-((R)-Carboxy((R)-2-(4-ethyl-2,3-dioxopiperazine-1-carboxamido)-2-phenylacetamido)methyl)-3-((2S,5R,6R)-6-((R)-2-(4-ethyl-2,3-dioxopiperazine-1-carboxamido)-2-phenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carbonyl)-5,5-dimethylthiazolidine-4-carboxylic acid
CAS No.	2170771-53-4
Synonyms	Piperacillin dimer
Molecular Weight	1035.1
Molecular Formula	C <sub>46</sub> H <sub>54</sub> N <sub>10</sub> O <sub>14</sub> S <sub>2</sub>

## 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

## Section 4 : First Aid Measures

Eye	Wash with plenty of water
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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	Piperacillin EP Impurity T can be washed with plenty of water in case of any exposure

### Section 5 : Firefighting Measures

Extinguishing Media	Carbon dioxide, dry chemical powder, foam, water.
Unusual Fire and Explosion Hazards	None indicated

### 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.

### Section 7 : Handlings and Storage

Handling	Wear surgical gloves
Storage	Can be stored at room temperature

### 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

### 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
<b>Explosion Limits</b>	
Lower	NA
Upper	NA
Solubility	Chloroform, Methanol
Specific Gravity/Density	NA

### Section 10 : Stability and Reactivity

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

### 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

### Section 12 : Ecological Information

Data not available

### Section 13 : Disposal Consideration

RCRA P-Series	Can be incinerated
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