

# Material Safety Data Sheet

## Section 1 : Chemical Product Company Identification

Product Name	Bortezomib Impurity 2
CAS No.	289472-78-2
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	+91-75750 02050

## Section 2 : Chemical Information

Chemical Name	N-((S)-1-(((R)-1-Hydroxy-3-methylbutyl)amino)-1-oxo-3-phenylpropan-2-yl)pyrazine-2-carboxamide
CAS No.	289472-78-2
Synonyms	SR-Isomer, Bortezomib Impurity E
Molecular Weight	356.4
Molecular Formula	C <sub>19</sub> H <sub>24</sub> N <sub>4</sub> O <sub>3</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
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

Bortezomib Impurity 2 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
RCRA U-Series	NA

## Section 14 : Transport Consideration

UN-Number

ADR/RID:	IMDG:	IATA:
<b>UN proper shipping name</b>		
ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods		
<b>Transport hazard class(es)</b>		
ADR/RID:	IMDG:	IATA:
<b>Packaging Group</b>		
ADR/RID:	IMDG:	IATA:
<b>Environmental hazards</b>		
ADR/RID: No	IMDG Marine pollutant: No	IATA: No
<b>Special precautions for users</b>		
<b>Further information</b>		

### Section 15 : Regulatory Information

TSCA	Attached the letter
Health & Safety Reporting List	No data available
Chemical Test Rules	Chemical analysis report is attached

### Section 16 : Additional Information

This product is not bioactive, non-radioactive. It is for R&D use only. Not for drug, household or other uses.

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.