## **Material Safety Data Sheet**

Section 1 : Chemical Product Company Identification	
Product Name	N-Nitroso Bleomycin
CAS No.	NA
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

Section 2 : Chemical Information	
Chemical Name	(3-(2'-((3S,6R,7S,8S,11S)-1-(6-Amino-2-((S)-3-amino-1-(((S)-2,3-diami no-3-oxopropyl)(nitroso)amino)-3-oxopropyl)-5-methylpyrimidin-4-yl )-3-((((2R,3S,4S,5S,6S)-3-(((2R,3S,4S,5R,6R)-4-(carbamoyloxy)-3,5-dih ydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-4,5-dihydro xy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)(1H-imidazol-4-y l)methyl)-7-hydroxy-11-((R)-1-hydroxyethyl)-6,8-dimethyl-1,4,9,12-t etraoxo-2,5,10,13-tetraazapentadecan-15-yl)-[2,4'-bithiazole]-4-carb oxamido)propyl)dimethylsulfonium
CAS No.	NA
Molecular Weight	1444.6
Molecular Formula	C55H83N18O22S3

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

Hazard Statement:			
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.	P308 + P313:IF exposed or concerned: Get medical advice/attention.		
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  N-Nitroso Bleomycin can be washed with plenty of water in call 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			

Wear self-contained breathing apparatus, avoid dust formation.

Wash with plenty of water, provide adequate ventilation.

**Personal Precautions** 

Spills/Leaks

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	Off White Solid	
Odor	Odor less	
Melting Point	NA	
рН	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	

on 10: Stability and Reactivity
on 10: Stability and Reactivity

Chemical Stability	Stable	
Conditions to avoid	Direct contract 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
Mutagencity	NIL
Other Studies	NA

Section 12: Ecological Information

Data not available

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

NA

Section 14	Transport Consideration
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## **UN-Number**

RCRA U-Series

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

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

This product is not bioactive, non-radioactive. It is for R and 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.