Material Safety Data Sheet

- -	
Section 1: Chemical Product Company Identification	
Product Name	(+)-Noradrenaline Bitartrate
CAS No.	636-88-4
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	+91-7969225400

Section 2: Chemical Information	
Chemical Name	4-[(1S)-2-Amino-1-hydroxyethyl]-1,2-benzenediol (2R,3R)-2,3-Dihydroxybutanedioate (1:1) (salt)
CAS No.	636-88-4
Synonyms	D-Noradrenaline Bitartrate
Molecular Weight	169.2:150.1
Molecular Formula	C8H11NO3: C4H6O6

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	(+)-Noradrenaline Bitartrate 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
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	

Section 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

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

		_		
Section	14: Trans	sport Ca	nsider	ation

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:

Environmental hazards

ADR/RID: No IMDG 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/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.