Material Safety Data Sheet

Section 1 : Chemical Product Company Identification	
Product Name	Tiotropium EP Impurity G
CAS No.	1508-46-9
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	(1R,2R,4S,5S,7s)-7-Hydroxy-9,9-dimethyl-3-oxa-9-azoniatricyclo [3.3.1.02,4] nonane bromide
CAS No.	1508-46-9
Molecular Weight	170.2:79.9
Molecular Formula	C9H16NO2:Br

Section 3: Hazards Identification	
Emergency Overview:	
Appearance	White Hygroscopic 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 prot	tection/face protection.	
P302 + P352:IF ON SKIN: Wash with plenty of water		
P304 + P340:IF INHALED: Remove person to fresh air and	d 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	e/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	Tiotropium EP Impurity G 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		
ndling Wear surgical gloves		
Storage		

Storage

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 Hygroscopic 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	
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	
RCRA U-Series	NA	
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:		
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 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.