Material Safety Data Sheet

Effective Date: Due Date:

Section 1 : Chemical Product Company Identification	
Product Name	Ritonavir EP Impurity S
CAT No.	KMR006034
CAS No.	2084828-53-3
Identified uses	Pharmaceutical Reference Standard
Details of the Supplier Company	K. M. PHARMA SOLUTION PRIVATE LIMITED Unit No.101, Shivam Industrial park, Sarkhej-bavala NH=8A, At-Moraiya, Changodar, Ahmedabad (Gujarat), India-382213
Telephone	+91 9898822121

Section 2 : Chemical Informa	ition
Chemical Name	Thiazol-5-yl-methyl [(1S,2S,4S)-1-benzyl-4- [[(2S)-2[[[(1S,3S,4S)-1-benzyl-3-hydroxy-5-phenyl-4-[[(thiazol-5-ylmethoxy)carbonyl]amino]pentyl]carbamoyl] amino]-3- methylbutanoyl]amino]-2-hydroxy-5-phenylpentyl]carbamate (as per EP);(3S,4S,6S,10S,13S,15S,16S)-Bis(thiazol-5-ylmethyl)-4,15-dihydroxy-10-isopropyl-8,11-dioxo-3,6,13,16- tetrabenzyl-2,7,9,12,17-pentaazaoctadecanedioate (as per USP)
CAS No.	2084828-53-3
Molecular Weight	976.2
Molecular Formula	C52H61N7O8S2

Section 3: Hazards Identification		
Emergency Overview:		
Appearance	NA	
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	Ritonavir EP Impurity S 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	~Storage	

Section 8: Exposure Controls, Personal Protection

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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	NA	
Odor	NA	
Melting Point	NA	
рН	NA	
Vapor Pressure	NA	
Vapor Density	NA	
Evaporation Rate	NA	
Viscosity	NA	
Boiling Point	NA NA NA NA	
Decomposition Temp	NA	
Auto ignition Temp.	NA	
Flash Point	NA	
NFPA Rating	NA	
Flash Point NA NFPA Rating NA Explosion Limits Lower NA Upper NA		
Lower	NA	
Upper	NA	
Solubility	NA NA	
Specific Gravity/Density	NA	

Section 10 : Stability and Reactivity	
Chemical Stability	~ChemicalStability
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	>10,000 mg/kg Remarks: Behavioral:Somnolence (general depressed activity)
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	

Solitition **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:

Packaging Group

ADR/RID: IATA: IMDG:

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 & 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.



