

## MATERIAL SAFETY DATA SHEET

**SECTION 1:** Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifiers** Product name

Website:- chemicalbull.com

Ritonavir

CAS-No. : 155213-67-5

**1.2** Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

## **1.3** Details of the supplier of the safety data sheet

Company

:ChemicalBull Pvt Ltd 123/124, Panchratna, G.I.D.C Char Rasta,Vapi-396195 Dist, Valsad, Gujarat, INDIA Website:- chemicalbull.com

Email: - info@chemicalbull.com

## **1.4 Emergency telephone number**

Emergency Phone : +91 9696960250

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

**Classification according to Regulation** Acute toxicity, Oral Acute toxicity, Inhalation Acute toxicity, Dermal

For the full text of the Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

# Labelling according Regulation Pictogram

Signal word	Warning
Hazard statement(s) H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
Precautionary statement(s) P261 P280 P301 + P312 + P330	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
Supplemental Hazard Statements	none

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Formula Molecular weight CAS-No.	: C37H48N6O5S2 : 720,94 g/mol : 155213-67-5		
Component		Classification	Concentration

Ritonavir	
	Acute Tox. 4; H302, H332, <= 100 %
	H312

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- **5.2** Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- **5.4 Further information** No data available

## **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- **6.4** Reference to other sections For disposal see section 13.

#### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

- **7.2** Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

### **Components with workplace control parameters**

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## **Personal protective equipment**

## Eye/face protection

Safety glasses with side-shields conforming to Use equipment for eye protection tested and approved under appropriate government standards

## **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation

## **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

For nuisance exposures use type P95 particle respirator. For higher level protection use type P99 respirator cartridges. Use respirators and components tested and approved under appropriate government standards

## **Control of environmental exposure**

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance Form: solid b) Odour No data available c) Odour Threshold No data available No data available d) pH e) Melting No data available point/freezing point No data available f) Initial boiling point and boiling range g) Flash point Not applicable h) Evaporation rate No data available Flammability (solid, No data available i) qas) Upper/lower No data available j) flammability or explosive limits No data available k) Vapour pressure Vapour density No data available 1) m) Relative density No data available

- n) Water solubility No data available
- o) Partition coefficient: No data available n-octanol/water
- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available

## 9.2 Other safety information

Solubility in otherMethanol - solublesolventsEthanol - soluble

#### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity** No data available

## **10.2 Chemical stability** Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents

#### **10.6 Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides In the event of fire: see section 5

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitisation** No data available

**Germ cell mutagenicity** No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## **Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure** No data available

Specific target organ toxicity - repeated exposure No data available

## Aspiration hazard

No data available

**Additional Information** RTECS: Not available

nephrotoxic effects, potential hepatotoxicity, Nausea, Vomiting, Diarrhoea, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **SECTION 12: Ecological information**

**12.1 Toxicity** 

No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- **12.5 Results of PBT and vPvB assessment** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## **Contaminated packaging**

Dispose of as unused product.

SECT	TION 14: T	ransport informat	ion	
14.1	UN numb ADR/RID:	-	IMDG: -	IATA: -
14.2	ADR/RID: IMDG:	er shipping name Not dangerous goo Not dangerous goo Not dangerous goo	ds	
14.3	Transpor ADR/RID:	t hazard class(es) -	IMDG: -	IATA: -
14.4	Packagin ADR/RID:		IMDG: -	IATA: -
14.5	<b>Environm</b> ADR/RID:	nental hazards no	IMDG Marine pollutant: no	IATA: no
14.6	<b>Special p</b> No data av	recautions for use vailable	r	

## **SECTION 15: Regulatory information**

# **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation

#### **15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

## Full text of H-Statements referred to under sections 2 and 3.

H302 H302 + H312 + H332	Harmful if swallowed. Harmful if swallowed, in contact with skin or if inhaled.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.

#### **Further information**

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 and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ChemicalBull Pvt Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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