

## MATERIAL SAFETY DATA SHEET

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### Section 1- Chemical Product Information and Company Identification.

**Product Name:** : Ranitidine Impurity A.  
**Synonym:** : Ranitidine related compound B ; Ranitidine Dimer ; Ranitidine bis-compound ; N,N'-Bis[2-[[[5-[(dimethylamino)methyl]furan-2-yl)methyl]sulfonyl]ethyl]-2-nitroeth-1-ene-1,1-diamine ; N,N'-bis{2-[[[5-[(Dimethylamino)methyl]-2-furanyl)methyl]thio]ethyl}-2-nitro-1,1-ethenediamine.  
**Product code:** : BS16661.  
**CAS Number:** : 72126-78-4.  
**Company Name:** : Briti Scientific.  
**Company Address:** : Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055. Telangana, India.

### Section 2- Hazards Identification.

#### Classification

No information available.

#### Label Elements

##### **Signal Word**

No information available.

##### **Hazard Statements**

No information available.

##### **Hazards not otherwise classified (HNOC)**

None identified

### Section 3- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
72126-78-4.	N,N'-Bis[2-[[[5-[(dimethylamino)methyl]furan-2-yl)methyl]sulfonyl]ethyl]-2-nitroethene-1,1- diamine	C <sub>22</sub> H <sub>35</sub> N <sub>5</sub> O <sub>4</sub> S <sub>2</sub> .

### Section 4- First Aid Measures.

**General Advice:** If symptoms persist, call a physician.

**Eye Contact:** Rinse immediately with plenty of water

**Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.

**Ingestion:** Medical assistance for gastric lavage.

**Most important symptoms and effects:** None reasonably foreseeable.

**Notes to Physician:** can be washed with plenty of water in case of any exposure.

### Section 5- Fire Fighting Measures.

**Suitable Extinguishing Media:** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam. Water mist maybe used to cool closed containers.

**Unsuitable Extinguishing Media:** None indicated.

**Flash Point:** No information available.

**Method:** No information available.

**Autoignition Temperature:** Not applicable

#### **Explosion Limits**

**Upper** No data available.

**Lower** No data available.

**Specific Hazards Arising from the Chemical:** No information available.

**Sensitivity to Mechanical Impact:** No information available.

**Hazardous Combustion Products:** No information available.

**Protective Equipment and Precautions for Firefighters:** No information available.

### Section 6- Accidental Release Measures.

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges.

**Spills/Leaks:** Wash with plenty of water, provide adequate ventilation.

**Environmental Precautions:** Should not be released into the environment.

**Methods for Containment and Clean Up:** Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Remove all sources of ignition.

### Section 7- Handling and Storage.

**Handling:** Wear personal protective equipment/face protection.

**Storage:** Store at ambient temperature.

### Section 8- Exposure Control/Personal Protection.

#### **Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas. Ensure that eye wash stations and safety showers are close to the workstation location.

#### **Personal Protective Equipment**

**Eye/face Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Hand protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** Self-contained breathing apparatus.

**Recommended Filter type:** Particulates filter conforming to EN 143.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

### Section 9- Physical and Chemical Properties.

<b>Physical State:</b>	Solid.
<b>Appearance:</b>	Light Yellow to Dark Yellow.
<b>Odor:</b>	Odor less.
<b>Odor Threshold:</b>	No information available.
<b>pH:</b>	Basic.
<b>Melting Point/Range:</b>	No information available.
<b>Boiling Point/Range:</b>	No information available.
<b>Flash Point:</b>	No information available.
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Flammability or explosive limits:</b>	
<b>Upper</b>	No data available.
<b>Lower</b>	No data available.
<b>Vapor Pressure:</b>	No data available.
<b>Vapor Density:</b>	No data available.
<b>Solubility:</b>	Soluble in methanol, DMSO.
<b>Partition coefficient; n-octanol/water:</b>	No data available.
<b>Autoignition Temperature:</b>	No information available.
<b>Decomposition Temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Molecular Formula:</b>	$C_{22}H_{35}N_5O_4S_2$ .
<b>Molecular Weight:</b>	497.67 g/mol.

### Section 10- Stability and Reactivity.

<b>Reactive Hazard:</b>	None known, based on information available.
<b>Stability:</b>	Stable under normal condition.
<b>Conditions to Avoid:</b>	Direct contact to skin.
<b>Incompatible Materials:</b>	keep away.
<b>Hazardous Decomposition Products:</b>	No information available.
<b>Hazardous Polymerization:</b>	No information available.
<b>Hazardous Reactions:</b>	None under normal processing.

### Section 11- Toxicological Information.

#### Acute Toxicity

**Product Information:** No information available.

#### **Component Information**

**Toxicologically Synergistic Products:** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Irritation:</b>	Irritating to eyes and skin.
<b>Sensitization:</b>	No information available.
<b>Carcinogenicity:</b>	No information available.
<b>Mutagenic Effects:</b>	No information available.
<b>Reproductive Effects:</b>	No information available.

**Teratogenicity:** No information available.  
**STOT - single exposure:** None known  
**STOT - repeated exposure:** None known  
**Aspiration hazard:** No information available.  
**Symptoms / effects, both acute and delayed:** No information available.  
**Other Adverse Effects:** The toxicological properties have not been fully investigated.

### Section 12- Ecological Information.

**Ecotoxicity:** No information available.  
**Persistence and Degradability:** No information available.  
**Bioaccumulation/ Accumulation:** No information available.  
**Mobility:** No information available.

### Section 13- Disposal Considerations.

**Waste Disposal Methods:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.  
 RCRA P-Series Can be incinerated  
 RCRA U-Series NA

### Section 14- Transport Information.

<b>UN-Number</b>		
ADR/RID:	IMDG:	IATA:
<b>UN proper shipping name</b>		
ADR/RID:	Not dangerous goods	
IMDG:	Not dangerous goods	
IATA:	Not dangerous goods	
<b>Transport hazard class(es)</b>		
ADR/RID:	IMDG:	IATA:
<b>Packaging Group</b>		
ADR/RID:	IMDG:	IATA:
<b>Environmental hazards</b>		
ADR/RID: No	IMDG Marine pollutant: No	IATA: No
<b>Special precautions for users</b>		
<b>Further information</b>		

### Section 15- Regulatory Information.

**Legend:**  
 TSCA - Toxic Substances Control Act, (40 CFR Part 710).  
 X - Listed  
 '-' - Not Listed  
**TSCA 12(b)** - Notices of Export Not applicable.  
**U.S. Federal Regulations**

SARA 313 Not applicable.

SARA 311/312 Hazard Categories See section 2 for more information.

CWA (Clean Water Act) Not applicable.

**Clean Air Act** Not applicable.

**OSHA** - Occupational Safety and Health Administration: Not applicable.

**CERCLA**: Not applicable.

**California Proposition 65**: This product does not contain any Proposition 65 chemicals.

### Section 16- Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

