

MATERIAL SAFETY DATA SHEET

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Section 1- Chemical Product Information and Company Identification.

Product Name: : Ranitidine Impurity B.
Synonym: : Ranitidine related compound A ; Ranitidine Diamine ; 2-[[[5-[(dimethylamino)methyl]furan-2-yl]methyl]sulfanyl]ethan-1-amine Dihydrochloride ; 5-[[[2-Aminoethyl]thio]methyl]-N,N-dimethyl-2-furanmethanamine Dihydrochloride.
Product code: : BS16662.
CAS Number: : 72545-66-5.
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

Warning.

Hazard Statements

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation



Precautionary Statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 3- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
72545-66-5.	2-[[[5-[(Dimethylamino)methyl]furan-2-yl]methyl]sulfanyl]ethanamine Dihydrochloride	C ₁₀ H ₁₈ N ₂ OS·2HCl.

Section 4- First Aid Measures.

General Advice: If symptoms persist, call a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact: If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion: Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.

Most important symptoms and effects: None reasonably foreseeable.

Notes to Physician: Treat symptomatically.

Section 5- Fire Fighting Measures.

Suitable Extinguishing Media: Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam. Water mist maybe used to cool closed containers.

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

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: Flammable. Containers may explode when heated.

Sensitivity to Mechanical Impact: No information available.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO₂). s, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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.

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. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition

Storage: Keep container tightly closed in a dry and well-ventilated place.

Storage Conditions: 2-8 °C

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 as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

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: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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.

Physical State:	Solid.
Appearance:	Pale yellow to yellow-brown.
Odor:	No information available.
Odor Threshold:	No information available.
pH:	No information available.
Melting Point/Range:	135°C.
Boiling Point/Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No data available.
Flammability (solid, gas):	Not applicable.
Flammability or explosive limits:	
Upper	No data available.
Lower	No data available.
Vapor Pressure:	No data available.
Vapor Density:	No data available.
Solubility:	Soluble in water.
Partition coefficient; n-octanol/water:	No data available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.
Molecular Formula:	C ₁₀ H ₁₈ N ₂ OS·2HCl.
Molecular Weight:	214.3 : 2(36.5) g/mol.

Section 10- Stability and Reactivity.

Reactive Hazard:	None known, based on information available.
Stability:	Stable under normal condition.
Conditions to Avoid:	Incompatible products. Excess heat. Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon monoxide (CO), Carbon dioxide (CO ₂).
Hazardous Polymerization:	Hazardous polymerization does not occur.
Hazardous Reactions:	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

Irritation:	Irritating to eyes and skin.
Sensitization:	No information available.
Carcinogenicity:	No information available.
Mutagenic Effects:	No information available.
Reproductive Effects:	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:	Do not empty into drains. Do not flush into surface water or sanitary sewer system.
Persistence and Degradability:	Insoluble in water.
Bioaccumulation/ Accumulation:	No information available.
Mobility:	Is not likely mobile in the environment due its low water solubility.

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.

