

# Material Safety Data Sheet (MSDS) for H-89, Dihydrochloride



## I. Identification:

**Product name:** H-89, Dihydrochloride  
**Product Catalog:** 9844  
**CAS number:** Not applicable to mixtures  
**Manufacturer Supplier:** Cell Signaling Technology  
 3 Trask Lane  
 Danvers, MA 01923 USA  
 978-867-2300 TEL  
 978-867-2400 FAX  
 978-578-6737 EMERGENCY TEL

## II. Composition/Information:

**Substance Name:** H-89, Dihydrochloride  
**Synonyms:** N-[2-(p-Bromocinnamylamino)ethyl]-5-isoquinolinesulfonamide, Di-HCl Salt  
**CAS#:** 127243-85-0  
**Molecular Weight:** 519.20  
**Molecular Formula:**  $C_{20}H_{20}BrN_3O_2S \cdot 2HCl$

## III. Hazard Identification:

To the best of our knowledge, the chemical, physical, and toxicological properties of this solution have not been thoroughly investigated.

**EMERGENCY OVERVIEW:** May be an irritant. May cause irritation to eyes, skin, mucous membranes.

**HMIS rating:** Health 1  
 Flammability 0  
 Reactivity 0

## IV. First Aid Measures:

**Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Get medical attention.

**Skin exposure:** In case of contact, immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.

**Eye exposure:** In case of contact with eyes, immediately flush eyes water for at least 15 minutes. Get medical attention.

## V. Fire Fighting Measures:

**Flash Point:** Data not available.

**Autoignition Temperature:** Data not available.

**Fire extinguishing media:** Water spray, dry chemical, foam, or carbon dioxide.

**Firefighting:** Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

**VI. Accidental Release Measures:** Take appropriate precautions to minimize direct contact with skin, eyes, mucous membranes, and prevent inhalation of dust. Isolate the spill area. Wear approved self-contained breathing apparatus, protective clothing and chemical resistant gloves. Sweep up carefully to avoid raising dust and transfer to a chemical waste container for disposal according to local, state, and federal regulations. Ventilate area and wash spill site after material pickup is complete. Do not let substance enter drains.

## VII. Handling And Storage:

**Storage:** Store in tightly closed container at -20°C.

Avoid contact with skin, eyes, mucous membranes and respiratory system. Wash hands thoroughly after handling.

**VIII. Exposure Controls/Personal:** Occupational exposure limits not found.

**Ventilation System:** A system of local and/or general exhaust is recommended.

**Skin Protection:** Wear compatible chemical resistant gloves and protective clothing.

**Eye protection:** Wear protective safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

## IX. Physical And Chemical Properties

**Appearance:** crystalline powder  
**Color:** off-white to light yellow  
**Odor:** none  
**Boiling Point:** data not available  
**Melting Point:** data not available  
**Ignition temperature:** data not available  
**Volatile Organic Compounds:** data not available  
**pH:** data not available  
**Solubility:** soluble in DMSO or ethanol/water

## X. Stability and Reactivity:

**Stability:** Stable under recommended storage conditions.

**Conditions to avoid:** Moisture. Protect from light and heat.

**Materials to avoid:** Strong oxidizing agents, strong reducing agents.

**Hazardous Decomposition:** Carbon oxides, sulfur oxides.

**Hazardous exothermic reactions:** During fire conditions if may produce toxic gases such as carbon monoxide, carbon dioxide.

**XI. Toxicological Information:** To the best of our knowledge, the chemical, physical, and toxicological properties of this solution have not been thoroughly investigated.

**Acute Effects:** Data not available.

**Primary Effects:** Data not available. May be an irritant to eyes, skin, respiratory system.

**Chronic Effects:** Data not available.

**XII. Ecological Information:** Data not available for this product.

**XIII. Disposal Considerations:** Dispose of in accordance with federal, state, local environmental regulations.

## XIV. Transport Information:

**DOT : Proper Shipping Name:** None.

This substance is considered non-hazardous for transport.

**IATA : Proper Shipping Name:** None.

This substance is considered non-hazardous for air transport.

## XV. Regulatory Information:

**EU Regulations/Classifications/Labeling Information:** Not available for this product.

**US Regulatory Information:**

Not SARA listed.

## XVI. Other Information:

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.