

N-Methylbutane-1,4-diamine, Dihydrochloride: sc-212242



The Power to Question

MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name: N-Methylbutane-1,4-diamine, Dihydrochloride
Catalog Number: sc-212242
Synonyms: N-Methylputrescine, Dihydrochlorid
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. Composition / Information on Ingredients

Name N1-methylbutane-1,4-diamine dihydrochloride
CAS No 89690-09-5

3. Hazards Identification

4. First Aid Measures

Eye Contact Immediately flush eye(s) with copious amounts of water and continue to do so for at least 15 minutes. If symptoms are severe and/or persistent, SEEK MEDICAL ATTENTION.

Ingestion Wash mouth out thoroughly with copious amounts of water. Do not induce vomiting. If symptoms are severe and/or persistent, SEEK MEDICAL ATTENTION.

Inhalation Remove from exposure, rest and keep warm. If exposure has been great or if symptoms are severe and/or persistent, SEEK MEDICAL ATTENTION.

Skin Contact Remove all contaminated articles of clothing, shoes, gloves, etc. and immediately flush contaminated area with copious amounts of water and continue to do so for at least 15 minutes. If symptoms are severe and/or persistent, SEEK MEDICAL ATTENTION.

5. Fire Fighting Measures

Fire Fighting In the event of a fire involving this material, extinguish using dry chemical powder, chemical foam, sand or similar. DO NOT USE WATER. Protective clothing and breathing apparatus should be worn as deemed necessary.

6. Accidental Release Measures

Environmental Precautions Do not allow material to enter drains, water courses or to contaminate soil.

Methods for Cleaning Up Evacuate area. For large spillages, contain liquid within sand bund then remove both solids and liquid to closed containers. Store containers containing spillage outdoors in a secure, well ventilated area away from personnel.

Evacuate area. In small quantities, absorb on sand, vermiculite, diatomaceous earth or any inert absorbent material then place in closed container for disposal. Store container containing spillage outdoors in a secure, well ventilated area away from personnel.

Personal Precautions See Section 8.

7. Handling And Storage

Handling This product should only be handled by persons suitably qualified and competent in the handling of potentially hazardous chemicals. It should be noted that the toxicological and physiological properties of this chemical may not be fully known (see section 11) and that new hazards may arise from the reactions between this product and other chemicals (see section 10). It is important that all persons intending handling this chemical read this sheet and are aware of the information given regarding fire, health and chemical hazard before proceeding further.

Storage Store in a well ventilated, secure area. Store under an inert atmosphere.

8. Exposure Controls/Personal Protection

Eye Protection Where a full face mask is not to be used, suitable protective goggles, eyeshields or approved safety glasses should be worn.

Hand Precautions Wear gloves or gauntlets which are non-permeable to material and any carrier solvent.

Respiratory Precautions Wear approved mask or respirator suitable for level and duration of exposure.

Skin Protection Wear suitable protective clothing as and when necessary.

9. Physical And Chemical Properties

Appearance	White Crystalline Solid
Boiling Point	No Data
Melting Point	176 to 178
Flash Point	No Data
Molecular Formula	C ₅ H ₁₄ N ₂ .2HCl
Molecular Weight	175.101
Density	No Data
Purity	97%+
Solubility in DMSO	No Data
Solubility in DMF	No Data
Solubility in CH₂ Cl₂	No Data
Solubility in Me CN	No Data
Solubility in THF	No Data
Solubility in Me OH	No Data

N.B. The appearance is that of a representative sample. There may be some variance between batches.

10. Stability And Reactivity

Conditions to Avoid This material should not be used or stored in conditions of high (or highly fluctuating) temperature or be exposed to any possible source of ignition. Exposure of the material to direct sunlight or the air should be kept to a minimum and a moist atmosphere avoided.

Materials to Avoid Incompatible with bases and basic gases

Toxic Products May evolve Hydrogen chloride/Chlorine.

Combustion/Decomposition Oxides of nitrogen.

11. Toxicological Information

Inhalation Toxicity No Data

Oral Toxicity No Data

Skin Toxicity No Data

Toxicological Information (Generic) No Data

Toxicological Information (Specific) No Data

12. Ecological Information

Ecological Information No Data

13. Disposal Considerations

Disposal Considerations Arrange for the immediate collection of material by a licensed disposal contractor/ company. All waste disposal must be carried out in consultation with the local Waste Disposal Authority and be in accordance with all national and regional regulations.

14. Transport Information

UN Number	No Data
IATA Class	No Data
EINECS No	No Data
IATA Packing Group	No Data
IATA Sub Risk	No Data

15. Regulatory Information

Risk Phrases	R20/21/22 – Harmful by inhalation in contact with skin and if swallowed R34 – Causes burns
Safety Phrases	S23 – Do not breathe gas/fumes/vapour/spray S24/25 – Avoid contact with skin and eyes S36/37/39 – Wear suitable protective clothing gloves and eye/face protection

16. Other Information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

05/12/2011