



NIVEDITA CHEMICALS PVT. LTD.

Material Safety Data Sheet (MSDS)

01. IDENTIFICATION OF SUBSTANCE AND COMPANY	
Substance	Trimetazidine Hydrochloride
Company	Nivedita Chemicals Pvt Ltd A-14, MIDC, Andheri [East] Mumbai- 400 093, Maharashtra- India Tel: + 91- 022-28327 321, 2822 2168, 2832 9337. Fax: + 91- 022-28364256
Emergency- Contact Information	Mr. Dinesh P. Gurav(Head, Quality & Regulatory Affairs) Tel: + 91- 022-28327321 Cell: 09892679550

02. COMPOSITION AND INFORMATION ON INGREDIENTS	
Chemical Name	1-(2,3,4-Trimethoxybenzyl)piperazine dihydrochloride.
Molecular Formula	C ₁₄ H ₂₂ N ₂ O ₃ ·2HCl
Molecular Weigh	339.3

03. HAZARDS IDENTIFICATION	
Potential Acute Health effects	Slightly hazardous in case of skin contact [irritant], of ingestion, of inhalation.
Potential Chronic Health effects	Carcinogenic effects: Not available Mutagenic effects: Not available.
Potential Environment effects	Do not discard in natural environment

04. FIRST AID MEASURES	
Inhalation	If inhaled, remove to fresh air. If breathing is difficult give oxygen. Get medical attention
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritate skin with emollient. Remove contaminated clothing and shoes. Cold water may be used. Water clothing before re-use. Get medical attention.
Eye contact	If case of contact remove contact lenses if any and washed the eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention
Ingestion	Never give anything by mouth to an un-conscious person. Loosen tight clothing such as a coliar, tie, belt, or waistband. Get medical attention



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05. FIRE FIGHTING MEASURES	
<i>Fire Fighting media</i>	Use water spray. Use DRY chemical Powder.
<i>Flammable Limits</i>	Not available

06. ACCIDENTAL REALEASE MEASURES	
<i>Personal</i>	Keep away from heat and flame. Use hand gloves, safety goggles and nose masks. Finished cleaning by spreading water on contaminated surface and mop.

07. HANDLING AND STORAGE	
<i>Handling</i>	Keep away from heat and flame, Use hand gloves, safety goggles and nose masks. Avoid contact with skin and eyes. Avoid conditions which produce dust.
<i>Storage</i>	Store protected light in an air tight containers.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION	
<i>Engineering Control</i>	Provide exhaust, ventilation or other engineering controls to keep the airborne concentrations controlled. Ensure that eyewash stations and safety showers are proximal to the work station/ location.
<i>Personal Protection</i>	Use hand gloves, lab coat, safety goggles and nose masks.
<i>Exposure limits</i>	Not available

09. PHYSICAL AND CHEMICAL PROPERTIES	
<i>Appearance</i>	White or almost white, crystalline powder, slightly hygroscopic.
<i>Molecular Weight</i>	339.3
<i>Solubility</i>	Freely soluble in water, sparingly soluble in alcohol.
<i>Melting Point</i>	Melts between 225-228°C with decomposition
<i>pH [5% Solution]</i>	Between 2.3- 3.3
<i>Odour</i>	Not available

10. STABILITY AND REACTIVITY DATA	
<i>Stability</i>	The product is stable.
<i>Corrosives</i>	Not available
<i>Incompatibility with various substances</i>	Reactive with oxidizing agents, alkali.
<i>Polymerization</i>	Will not occur.



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11. TOXICOLOGICAL INFORMATION	
<i>Toxicity to animals</i>	LD ₅₀ in male, female mice rats (mg/kg): 91, 107, 124, 124. i.v., 264, 245, 327, 288, i.p., 528, 608, 1147, 987 orally (Harpey). Therap Cat: Antianginal
<i>Accute effect</i>	Vapors or mist is irritating to the eyes.

12. ECOLOGICAL INFORMATION	
<i>Ecotoxicity</i>	Not available
<i>Toxicity of the products of biodegradation</i>	The product itself and its products of degradation are not toxic.

13. DISPOSAL CONSIDERATION	
<i>Waste disposal</i>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT INFORMATION	
<i>Transport</i>	Material should be carried at ambient temperature in an air tight containers.

15. REGULATORY INFORMATION	
<i>CAS NO</i>	[13171-25-0]
<i>Classification- Therap Category</i>	Coronary Vasodilator [Anti-anginal]

16. OTHER DATA	
<p><i>The information above is believed to be accurate and represents the best information currently available to us. However we make no warranty of merchantability or any other warranty, express or implied with respect to such information's and we assume no liability resulting from its use.</i></p> <p><i>Users should make their own investigations to determine the suitability of the information for their particular purposes.</i></p>	
<i>Creation Date: 13/02/2010</i>	 NIVEDITA CHEMICALS P. LTD. A-14, M.I.D.C., ANDHERI (E), MUMBAI - 400 093.