

Di-Methyl Amine Hydrochloride (DMA HCL)

Specifications

CAS NO.

CAS NO.	506-59-2
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NATURE

NATURE	It is a clear , colourless liquid available as 70% solution. Also Available as white crystalline powder and solution with strength above 51 %
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PHYSICAL PROPERTIES

Empirical Formula	C ₂ H ₈ NCL
Structural formula	(CH ₃) ₂ -NH-HCL
Molecular Wt.	81.55
Specific Gravity at 20/20 °C	1.0455
Refractive Index	1.4404
Colour (APHA) Max	30
Solubility in Water	Soluble
Flammability	Non Flammable
Melting Point at 760 mm Hg (for Crystals)	171 °C (399 °F)
Turbidity	0.3
pH	7.3 - 7.5

SPECIFICATIONS (For 51% Sol)

DMA HCL	51 % min
Water	49 % min

SPECIFICATIONS (For 70% Sol)

DMA HCL	70 % min
Water	30 % min

SPECIFICATIONS (Crystalline Powder)

Assay (min)	99.0%
M.C. (max)	0.5 %
Melting Range	168-172 °C
pH in 10% Soln.	5.0 - 6.5

MSDS

EFFECT ON HEALTH

- It gives a possible allergic reaction if ingested with the skin, Nausea Headache, irritates the eyes and skin .

FIRST AID

1. INHALATION

- Remove contaminated clothing persons developing hypersensitivity reactions must obtain immediate Medical attention.
- May cause irritation of respiratory tract. Remove to fresh air tract.

2. EYES

- May cause irritation. Flush with copious quantities of water.

3. SKIN

- May cause irritation. Flush with copious quantities of water.

4. INGESTION

- May cause irritation Flush out mouth with water.

SPECIAL PROTECTION INFORMATION.

1. Ventilation

- Adequate.

2. Local Exhaust

- Recommended.

3. Material

- Recommended.

- 4. Protective Gloves
 - Rubber

- 5. Eye Protection
 - Safety Goggles.

SPECIAL PRECAUTION LEAK PROCEDURE

- Store in tight container. This material should be handled and stored as per label and other instructions to ensure product identity.
- Avoid contact with eyes, skin or clothing. Avoid breathing dust or mist wash thoroughly after handling wear fresh clothing daily.
- Wear approved respirator and chemically compatible gloves. Vacuum are sweep up spillage.

Applications

PHARMACEUTICALS: This is being used as an intermediate (in powder form) for manufacture of Ranitidine and Metaphormine.

STORAGE & HANDLING: Keep container tightly closed suitable for any general chemical storage area.

Storage & Handling area should be well ventilated to keep vapour concentration at its lowest.

Material (solution) can be stored in drums & tanks. They should be checked for leaks before filling and during prolong storage.

Fittings of aluminium, copper, copper alloys, galvanised metal, magnesium and zinc alloys should be avoided as DMA HCL is corrosive to these metals.

PACKAGING: Aqueous solution is offered in 210 litre capacity HMHDPE drum containing 200 kg net of DMA HCL. Crystalline powder is offered in HDPE bags/drums containing 25 Kg net of DMA HCL. Also can be offered in 50kg Fibre Drums.

FIRST AID INGESTION: Call a physician

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT: In case of contact, flush skin with water.

EYE CONTACT: Immediately flush with water for 15 minutes.

FIRE RISK: Flash point N.A.

Autoignition N.A.

Flammable Limits N.A.

Fire Extinguisher Media - Use extinguisher media appropriate for surrounding fire.