OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

DL-NOR-ADRENALINE HCl AR

MSDS CAS: 55-27-6

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: DL-nor-ADRENALINE HCl

CAS#: 55-27-6

Synonym: (±)-4-(2-Amino-1-hydroxyethyl)-1,2-benzenediolhydrochloride, DL-Arterenolhydrochloride, DL-Noradrenalinehydrochloride, (±)-1-(3,4-Dihydroxyphenyl)-2-aminoethanolhydrochloride.

Chemical Name:

Chemical Formula: $C_8H_{11}NO_3.HCl$

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	Percent	Hazardous
DL-nor-Adrenaline Hydrochloride	55-27-6	90-100%	YES

Section 3: Hazards Identification

Classification of the substance or mixture
According to Regulation (EC) No1272/2008; Acute toxicity, Oral (Category 4)
According to European Directive 67/548/EEC as amended. Toxic if swallowed.

Section 4: First Aid Measures

Description of first aid measures
General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire and Explosion Data

Extinguishing media
Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Personal precautions:
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

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Section 6: Accidental Release Measures (Continued)

Environmental precautions:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling:
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature:-20 °C.

Section 8: Exposure Controls/Personal Protection

Personal protective equipment
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection: Face shield and safety glasses

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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Section 9: Physical and Chemical Properties

Physical state and appearance: Crystalline
Odor : Not available.
Taste : Not available.
Molecular Weight : 205.64 g/mole
Color : Not available.
pH (1% soln/water) : Not available.
Boiling Point : Not available.
Melting Point : 146 - 148 °C
Critical Temperature : Not available.
Specific Gravity : Not available.
Vapor Pressure : Not applicable.
Vapor Density : Not available.
Volatility : Not available.
Odor Threshold : Not available.
Ionicity (in Water) : Not available.
Dispersion Properties : Not available.
Water solubility : 100 g/l
Solubility : Not available.

Section 10: Stability and Reactivity Data

Storage stability: Stable under recommended storage conditions.
Conditions to avoid: Not available.
Materials to avoid: acids, Bases, Oxidizing agents
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

Section 11: Toxicological Information

Acute toxicity: no data available
Irritation and corrosion: no data available
Sensitisation: no data available

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Section 11: Toxicological Information (Continued)

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
May cause reproductive disorders. Exposure during pregnancy can provoke uterine contractions which can result in fetal asphyxia.

Reproductive toxicity

Reproductive toxicity - rat - Subcutaneous
Effects on Newborn: Behavioral.
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Developmental Toxicity - mouse - Subcutaneous
Effects on Embryo or Fetus: Fetal death.

Specific target organ toxicity - single exposure: no data available
Specific target organ toxicity - repeated exposure: no data available

Potential Health Effects

- **Inhalation** — May be harmful if inhaled. May cause respiratory tract irritation.
- **Skin** — May be harmful if absorbed through skin. May cause skin irritation.
- **Eyes** — Causes serious eye irritation.
- **Ingestion** — Toxic if swallowed.

Section 12: Ecological Information

Toxicity: no data available
Persistence and degradability: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available
PBT and vPvB assessment: no data available
Other adverse effects: no data available

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Section 13: Disposal Considerations

Waste treatment methods

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN N° : 2811
H.I. nr : 60
ADR – Class : 6.1

Sea transport (IMDG) [English only]

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN N° : 2811
MO-IMDG - Class or division: 6.1: Toxic substances.
IMO-IMDG - Packing group: III

Air transport (ICAO-IATA) [English only]

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN N° : 2811
ATA - Class or division: 6.1: Toxic substances.
IATA - Packing group: III

Section 15: Other Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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