

# Material Safety Data Sheet

## Section 1: Chemical Product Company Identification

Product Name	4-Nitro-o-phenylenediamine
CAS Number	99-56-9
Identified Uses	Pharmaceutical Reference Standard
Details of the Supplier Company	Naarini MolBio Pharma Private Limited 308, Yash Arian, Swami Vivekanand Cirle, Memnagar, Ahmedabad, India - 380052.
Contact Number	+91 9824257789

## Section 2: Chemical Information

Chemical Name	4-nitrobenzene-1,2-diamine, 1,2-Diamino-4-nitrobenzene
CAS Number	99-56-9
Molecular Weight	153.14
Molecular Formula	C6H7N3O2

## Section 3: Hazard Identification

<b>Emergency Overview:</b>	
Appearance	Yellow to Amber to Dark red powder to crystal
Target Organs	N/A
<b>Potential Health Effects:</b>	
Eye	NIL
Skin	NIL
Ingestion	NIL
Inhalation	NIL
Chronic	NIL

## Section 4: First Aid Measures

Eye	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
Skin	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes..
Ingestion	Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
Inhalation	Remove from exposure and move to fresh air immediately.
Notes to Physician	N/A

## Section 5: Fire Fighting Measures

Extinguishing Media	In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam..
Unusual Fire & Explosion Hazards	N/A

## Section 6: Accidental Release Measures

Personal Precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas.
Spills/Leaks	Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

### Section 7: Handling & Storage

Handling	Wear Surgical Gloves Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
Storage	Cool Place.

### Section 8: Exposure Controls, Personal Protection

Respiratory Protection	Self-Contained Breathing Apparatus
Exposure Limits	NA
Eye Protection	Wear safety glasses and chemical goggles if splashing is possible
Other Protective Equipment	Wear Protective Clothing
Skin	Wear appropriate protective gloves and clothing to prevent skin exposure.
Clothing	Wear appropriate protective clothing to minimize contact with skin.

### Section 9: Physical & Chemical Properties

Appearance	Yellow to Amber to Dark red powder to crystal
Odour	NA
Melting Point	201 °C
pH	NA
Vapour Pressure	NA
Vapour Density	NA
Evaporation Rate	NA
Viscosity	NA
Boiling Point	276.04°C
Decomposition Temperature	NA
Auto Ignition Temperature	NA
Flash Point	NA
NFPA Rating	NA
<b>Explosion Limits:</b>	
Lower	NA
Upper	NA
Solubility	
Specific Gravity/Density	1.3682

### Section 10: Stability & Reactivity

Chemical Stability	Stable under normal temperatures and pressures...
Conditions to avoid	Incompatible materials, strong oxidants..
Incompatibilities w.r.to Other Materials	Strong oxidizing agents, strong bases..
Hazardous Decomposition Products	Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.
Hazardous Polymerization	NA

### Section 11: Toxicological Information

CAS	NA
LD50/LC50	NA
Carcinogenicity	NA
Epidemiology	NA
Teratogenicity	NA
Reproductive Effects	NA
Neurotoxicity	NA

Mutagenicity	NA
Other Studies	NA

<b>Section 12: Ecological Information</b>
No Data Available

<b>Section 13: Disposal Consideration</b>	
RCRA P-Series	Can be incinerated
RCRA U-Series	NA

<b>Section 14: Transportation Consideration</b>	
<b>Un Number:</b>	
Transport Hazard Class(es):	
ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods
Environmental Hazard(s)	
ADR/RID	NA
IMDG	NA
IATA	NA

<b>Section 15: Transportation Consideration</b>	
TSCA	No Data Available
Health & Safety Reporting List	No Data Available
Chemical Test Rules	Chemical Analysis Report Is Attached Herewith

<b>Section 16: Additional Information</b>	
This product is NOT bioactive, non-radioactive. It is for R&D use ONLY. Not for drug, household or other uses.	
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on present state of our knowledge. It does not represent any guarantee of the product. The burden of safe use of this material rests entirely with the user. Naarini MolBio Pharma Private Limited disclaims all liability for any damage resulting from use of this material.	