

Material Safety Data Sheet

Section 1: Chemical Product Company Identification

Product Name	1-Methyl-4-nitrosopiperazine (MeNP) (5000 mcg/mL solution in Methanol)
CAS Number	16339-07-4
Identified Uses	Pharmaceutical Reference Standard
Details of the Supplier Company	Naarini MolBio Pharma Private Limited 308, Yash Arian, Swami Vivekanand Circle, Memnagar, Ahmedabad, India - 380052.
Contact Number	+91 9824257789

Section 2: Chemical Information

Chemical Name	1-Methyl-4-nitrosopiperazine; 1-Nitroso-4-methylpiperazine; N-Nitroso-N'-methylpiperazine
CAS Number	16339-07-4
Molecular Weight	129.16
Molecular Formula	C5H11N3O

Section 3: Hazard Identification

Emergency Overview:	
Appearance	white to light yellow solution
Target Organs	N/A
Potential Health Effects:	
Eye	NIL
Skin	NIL
Ingestion	NIL
Inhalation	NIL
Chronic	NIL

Section 4: First Aid Measures

Eye	Wash with plenty of water
Skin	Wash with plenty of water
Ingestion	Medical assistance for gastric lavage.
Inhalation	Remove to fresh air, artificial respiration or oxygen if necessary.
Notes to Physician	Apalutamide IHRS can be washed with plenty of water in case of any exposure

Section 5: Fire Fighting Measures

Extinguishing Media	Carbon Dioxide, dry chemical powder, foam, water.
Unusual Fire & Explosion Hazards	None Indicated

Section 6: Accidental Release Measures

Personal Precautions	Wear self-contained breathing apparatus, avoid dust formation
Spills/Leaks	Wash with plenty of water, provide adequate ventilation.

Section 7: Handling & Storage

Handling	Wear Surgical Gloves
Storage	Can be stored at Room Temperature

Section 8: Exposure Controls, Personal Protection

Respiratory Protection	Self-Contained Breathing Apparatus
Exposure Limits	NA
Eye Protection	Wear Safety Goggles
Other Protective Equipment	Wear Protective Clothing
Skin	Full Sleeves Apron
Clothing	Cotton

Section 9: Physical & Chemical Properties

Appearance	white to light yellow solution
Odour	Odourless
Melting Point	NA
pH	NA
Vapour Pressure	NA
Vapour Density	NA
Evaporation Rate	NA
Viscosity	NA
Boiling Point	239.23°C (rough estimate)
Decomposition Temperature	NA
Auto Ignition Temperature	NA
Flash Point	NA
NFPA Rating	NA
Explosion Limits:	
Lower	NA
Upper	NA
Solubility	Chloroform, Methanol
Specific Gravity/Density	NA

Section 10: Stability & Reactivity

Chemical Stability	Stable
Conditions to avoid	Direct Contact With Skin
Incompatibilities w.r.to Other Materials	Keep Away
Hazardous Decomposition Products	NIL
Hazardous Polymerization	NIL

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

Section 12: Ecological Information

No Data Available

Section 13: Disposal Consideration

RCRA P-Series	Can be incinerated
RCRA U-Series	NA

Section 14: Transportation Consideration

Un Number:	
Transport Hazard Class(es):	
ADR/RID	6.1
IMDG	6.1
IATA	6.1
Environmental Hazard(s)	
ADR/RID	III
IMDG	III
IATA	III

Section 15: Transportation Consideration

TSCA	No Data Available
Health & Safety Reporting List	No Data Available
Chemical Test Rules	Chemical Analysis Report Is Attached Herewith

Section 16: Additional Information

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.