

## Material Safety Data Sheet

### Section 1: Chemical Product Company Identification

|                                 |                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Product Name                    | p-Toluenesulfonamide                                                                                                          |
| CAS Number                      | 70-55-3                                                                                                                       |
| Identified Uses                 | Pharmaceutical Reference Standard                                                                                             |
| Details of the Supplier Company | Naarini MolBio Pharma Private Limited<br>308, Yash Arian, Swami Vivekanand Circle,<br>Memnagar, Ahmedabad,<br>India - 380052. |
| Contact Number                  | +91 9824257789                                                                                                                |

### Section 2: Chemical Information

|                   |                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Name     | 4-Methylbenzenesulfonamide; p-Toluenesulfonamide; 4-Methylbenzene-1-sulfonamide; 4-Methylbenzenesulfonamide; 4-Methylbenzenesulfonamide; 4-Methylphenylsulfonamide; 4-Tolylsulfonamide; Plasticizer 15; Toluene-4-sulfonamide; Tolylsulfonamide; Topcizer 1S; Tosylamide; Uniplex 173; p-Methylbenzenesulfonamide; p-Tolylsulfonamide; p-Tosylamide |
| CAS Number        | 70-55-3                                                                                                                                                                                                                                                                                                                                             |
| Molecular Weight  | 171.22                                                                                                                                                                                                                                                                                                                                              |
| Molecular Formula | C7H9NO2S                                                                                                                                                                                                                                                                                                                                            |

### Section 3: Hazard Identification

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Emergency Overview:</b>       |                          |
| Appearance                       | White to Off-White Solid |
| 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                | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention |
| Skin               | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention  |
| Ingestion          | Medical assistance for gastric lavage.                                                                                          |
| Inhalation         | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention               |
| 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 Off-White Solid |
| Odour                     | Odourless                |
| Melting Point             | 137°C                    |
| pH                        | NA                       |
| Vapour Pressure           | NA                       |
| Vapour Density            | NA                       |
| Evaporation Rate          | NA                       |
| Viscosity                 | NA                       |
| Boiling Point             | 214°C /1.33kPa           |
| Decomposition Temperature | NA                       |
| Auto Ignition Temperature | NA                       |
| Flash Point               | NA                       |
| NFPA Rating               | NA                       |
| <b>Explosion Limits:</b>  |                          |
| 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 | Oxidizing agents                |
| Hazardous Decomposition Products         | Carbon dioxide, Carbon monoxide |
| 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

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| <b>Un Number:</b>           |                                                                          |
| Transport Hazard Class(es): |                                                                          |
| ADR/RID                     | Does not correspond to the classification standard of the United Nations |
| IMDG                        | Does not correspond to the classification standard of the United Nations |
| IATA                        | Does not correspond to the classification standard of the United Nations |
| Environmental Hazard(s)     |                                                                          |
| ADR/RID                     | -                                                                        |
| IMDG                        | -                                                                        |
| IATA                        | -                                                                        |

### 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.