

## TECHNICAL DATA SHEET (TDS)

|                   |                                              |
|-------------------|----------------------------------------------|
| Product Name:     | Potassium Persulfate                         |
| CAS Number:       | 7727-21-1                                    |
| Chemical Formula: | K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> |
| Synonyms:         | Potassium Peroxydisulfate, KPS               |
| Compliance:       | GHS & REACH                                  |
| Category:         | BASIC                                        |

### Product Description

High-grade potassium persulfate. Serves as a thermal initiator for emulsion polymerization of resins, acrylics, and rubbers, and acts as an oxidizing desizing agent in textiles.

### Typical Specifications & Assays

| Parameter                      | Specification Value                  |
|--------------------------------|--------------------------------------|
| Appearance / Physical State    | White high-purity crystalline powder |
| Main Assay / Active Content    | >= 99.4 % Min                        |
| Moisture (H <sub>2</sub> O)    | <= 0.25 % Max                        |
| pH Value (1% aqueous solution) | 6.8 - 8.2                            |
| Heavy Metals (as Pb)           | <= 5.0 ppm Max                       |
| Iron (Fe) content              | <= 10.0 ppm Max                      |

### Safe Handling & Storage Guidelines

Ensure tight packaging closure. Store in a dry, cool, and well-ventilated chemical warehouse. Do not store together with highly reactive oxidizers or acids. Always wear standard protective gloves, eye protection, and clean breathing masks when handling industrial chemical volumes. Dispose in accordance with US EPA and localized state regulations.