**RADEEP PHARMA LLP**
Survey No. 143, Tundav–Anjesar Road
Post: Tundav, Taluka: Savli
Vadodara – 391775, Gujarat (India)
**Email: info@radeeppharma.com, www.radeeppharma.com**

# Product Data Sheet

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|---|---|
| **Product Name** | **Magnesium Stearate** |
| **Molecular Formula** | C36H70MgO4 |
| **Molecular Weight** | 591.26 g/mol |
| **CAS No.:** | 557-04-0 |

**Specification:**

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| **Description** | A very fine,light.white powder,odourless or with a Faint odor of stearic acid, Free from grittiness |
| **Solubility** | Practically insoluble in water. |
| **Freezing point** | Min $53^0$C |
| **Acid value** | 195 to 210 |
| **Free fatty acids** | Max 3% |
| **Reaction of magnesia** | Solution A gives the reaction of magnesium |
| **Appearance of solution** | Solution A is not more intensely coloured than reference solution YS |
| **Acidity or alkalinity** | NMT 0.05 ml of 0.1 M HCL or 0.1 M NaOH is required to change the colour of solution |
| **fatty acid content** | 90-100% |
| **Free stearic acid** | NMT 3% |
| **Arsenic** | Max 3 ppm |
| **Nickel** | Max 5 ppm |
| **Mercury** | Max 1 ppm |
| **Cadmium** | Max 1 ppm |
| **Chlorides** | Max 250 ppm |
| **Sullphates** | Max 0.5% |
| **Loss on drying at 105 $^0$C** | NMT 5.0% |
| **Bulk Density (In House)** | 0.28-0.38 g/cm$^3$ |
| **Assay ( Mg on dried basis)** | 3.8% - 5.0% |
| **Total Viable count** | $10^3$ cfu/g |
| **TYMC** | 100 cfu/g |
| **Escheria Coli & Salmonella** | Absent |
| **The Fatty acid fraction stearic acid** | NLT40.0% |
| **Sum of stearic acid of palmtic acid** | NLT 90.0% |