



Shivaay Chemical Industries

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### SPECIFICATION OF AMARANTH

#### Classification: -

|    |                |            |
|----|----------------|------------|
| 1) | Color Index No | 16185      |
| 2) | EEC No.        | E123       |
| 3) | FD & C No      | Red 2      |
| 4) | C.I Name       | Food Red 9 |
| 5) | Class          | Monoazo    |
| 6) | EINECS         | 213-022-2  |
| 7) | CAS No.        | 915-67-3   |

#### Specification: -

| Sr. | Characteristic                                                                                                   | Requirement          |
|-----|------------------------------------------------------------------------------------------------------------------|----------------------|
| 1)  | Color Description                                                                                                | Reddish Brown Powder |
| 2)  | Shade                                                                                                            |                      |
| 3)  | Total dye content, corrected for sample dried at 135°C for 3 hrs.<br>Percent by Mass, min.                       | 85.00                |
| 4)  | Loss on drying at 135°C, Percent by mass and chlorides & Sulphates express as sodium salts, percent by mass Max. | 15.00                |
| 5)  | Water-insoluble matter, percent by mass, Max.                                                                    | 00.20                |
| 6)  | Combined ether extracts, percent by mass, Max.                                                                   | 00.20                |
| 7)  | Subsidiary dyes, percent by mass, Max.                                                                           | 03.00                |
| 8)  | Dye intermediates, percent by mass, max.                                                                         | 00.50                |
| 9)  | Unulfonated primary aromatic amine (calculated as aniline)<br>Percent by mass, max.                              | 00.01                |
| 10) | Lead, mg/kg, Max.                                                                                                | 10.00                |
| 11) | Arsenic, mg/kg, Max.                                                                                             | 01.00                |
| 12) | Heavy metals, (as pb) mg/kg, max.                                                                                | 40.00                |
| 13) | Mercury, mg/kg, Max.                                                                                             | 01.00                |
| 14) | Chromium, mg/kg, Max.                                                                                            | 05.00                |
| 15) | Cadmium, mg/kg, Max.                                                                                             | 01.00                |

#### Solubility At Room Temperature

|    |                           |        |
|----|---------------------------|--------|
| 1) | Water (gm/ltr)            | 140.00 |
| 2) | Glycerin (gm/ltr)         | 100.00 |
| 3) | Propylene Glycon (gm/ltr) | 50.00  |
| 4) | Ethanol (95%) (gm/ltr)    | Trace  |

#### Stability To

|    |                      |           |
|----|----------------------|-----------|
| 1) | Acids                | Excellent |
| 2) | Neutral              | Excellent |
| 3) | Alkaline             | Good      |
| 4) | Baking 205°C (400°F) | Good      |
| 5) | Light                | Best      |
| 6) | Heat                 | Better    |