Technical Data Sheet

ZINC OXIDE (ZnO)

GRADE: CR-4 USP 2

G.H. CHEMICALS LTD.

PRODUITS CHIMIQUES G.H. LTÉE 1550 Brouillette St.

St-Hyacinthe QC Canada J2S 7B8

Tel: 450-774-9151

| Physical Properties | | | | | |
|--|--|---|-----------|-----------|-----------|
| Considia Cuntana | | Unit | Target | Min. | Max. |
| Specific Surface Bulk Density | | (m ² /g) (lb./ft ³) | 4.5 40 | 4.0 35 | 5.0 45 |
| Specific Gravity | | (ID./π°) | 5.6 | | 45 |
| Through 325 Mesh | | (%) | 5.6 | 99.98 | 100 |
| | | (/0) | | 99.90 | 100 |
| | Chemical Properties | | | | |
| | | | Unit | Min. | Max. |
| Description : | A very fine, amorphous, white or yellowish powder free from gritty particles | | Offic | Conf | |
| Identification : | A- When strongly heated, it assumes a yellow color that disappears on cooling | | | Conforms | |
| | B-In the presence of sodium acetate, solutions of zinc salts yield a white precipitate with hydrogen sulfide. This precipitate is insoluble in acetic acid, but is dissolved by 3 N hydrochloric acid. | | | Conf | orms |
| Alkalinity: | if a red color is produced, not more than 0.30 mL of 0.10 N hydrochloric acid is required to discharge it. | | | Conf | orms |
| Loss on ignition @ 50 | | | (%) | 0 | 1.0 |
| | no effervescence occurs and the resulting solution is clear and | | (70) | Conf | |
| solution : | colorless | | | Com | 011115 |
| Arsenic : | Not more than 6 ppm | | (ppm) | 0 | 6.0 |
| Lead : | The addition of 5 drops of potassium chromate TS produces no turbidity or precipitate | | 7667 | Conf | |
| Lead (A-A analysis): | | | (ppm) | 0 | 20 |
| Iron and heavy metals : | White precipitates are formed when potassium ferrocyanide TS is added to the first portion and when sodium sulfide TS is added to the second portion. | | | Conf | orms |
| Assay ZnO : | | | (%) | 99.0 | 100.5 |
| Cadmium Content : | | | (ppm) | 0 | 10 |
| Iron (A-A analysis): | | | (ppm) | 0 | 10 |
| Copper Content : | | | (ppm) | 0 | 10 |
| Heat Loss @ 110 °C | | | (%) | 0 | 0.07 |
| CR-4 USP 2 is produ TDS0019 Version 2 | ced to comply with the most current USP requirements for zinc oxide | | | ISO 9 | 001 |