| PRODUCT IDENTIFICATION | | | | | | |
|--|---|---|---|---|--|--|
| CAS NO. | | 1314-13-2 | | 0==-7 | | |
| INECS NO. | | 215-222-5 | | | | |
| FORMULA | | ZnO | | | | |
| MOL WT. | | 81.37 | | | | |
| H.S.CODE | | | | | | |
| | | 2817.00 | | | | |
| TOXICITY | | | | | | |
| SYNONYMS | | Zinc white; Zinc flowers ; C.I. pigment white 4; ZnO; | | | | |
| | | | | | | |
| | | | | | | |
| PHYSICAL AND CHEMIC | AL PROP | | | | | |
| PHYSICAL STATE | | white amorphous powder, Odorless | | | | |
| MELTING POINT | | 1975 C Sublimes | | | | |
| BOILING POINT SPECIFIC GRAVITY | | | | | | |
| SPECIFIC GRAVITY SOLUBILITY IN WATER | | 5.606 Insoluble (soluble in dilute acids, insoluble in alcohols) | | | | |
| pH | | 6.95 | | | | |
| VAPOR DENSITY | | 2.26 | | | | |
| AUTOIGNITION | | 2.20 | | | | |
| NFPA RATINGS | | Health: 1 Flammability: 0 Reactivity: 0 | | | | |
| REFRACTIVE INDEX | | | | | | |
| FLASH POINT | | non-combutible | | | | |
| STABILITY | | Stable under ordinary conditions | | | | |
| GENERAL DESCRIPTION & APPLIC | | CATIONS | | | | |
| Zinc Oxide (also called water and alcohol but s acicular or nodular dep for maximizing physical wavelengths below 360 with acidic component and hardness of coatin | soluble in pending of propertie) nm and ts of coat | acid and alko on the manufa es. Zinc oxide c provides bind ings and forms | ali. Zinc oxide particles r cturing process. The po absorbs virtually all UV lig ers outstanding protect s zinc soaps. Zinc soaps | nay be spherical, irticle shape is importar ght radiation at ion. Zinc oxide reacts improve the flexibility | | |
| | | | cosmetics, and it has a | | | |
| paper, the paints and t | he optico | al glass industri | es. | | | |
| SALES SPECIFICATION | | | | | | |
| PROPERTY | | RIAL GRADE | PROPERTY | BP GRADE | | |
| ZnO | 99 | .5% min | ZnO | 99.8% min | | |
| Zn | Nil | | Arsenic (As) | 5ppm max | | |
| Pb | 0.035% max | | Cadmium (Cd) | 10ppm max | | |
| | 0.0001% max | | Iron (Fe) | 200ppm max | | |
| Mn | | | | | | |
| CuO | 0.00 | 02% max | Lead (Pb) | 50ppm max | | |
| CuO Water Soluble | 0.00 0.1 | wt% max | Water Soluble | 0.1wt% max | | |
| CuO Water Soluble HCI Insoluble | 0.00 0.1 0.0 | wt% max 06% max | Water Soluble Loss on Ignition | 0.1wt% max 0.1wt% max | | |
| CuO Water Soluble HCI Insoluble Volatile Matter | 0.00 0.1 0.0 0. | wt% max 06% max 3% max | Water Soluble | 0.1wt% max | | |
| CuO Water Soluble HCI Insoluble Volatile Matter Loss on Ignition | 0.00 0.1 0.0 0. 0. | wt% max 06% max 3% max 2% max | Water Soluble Loss on Ignition | 0.1wt% max 0.1wt% max | | |
| CuO Water Soluble HCI Insoluble Volatile Matter | 0.00 0.1 0.0 0. 0. | wt% max 06% max 3% max | Water Soluble Loss on Ignition | 0.1wt% max 0.1wt% max | | |
| CuO Water Soluble HCI Insoluble Volatile Matter Loss on Ignition | 0.00 0.1 0.0 0. 0. | wt% max 06% max 3% max 2% max | Water Soluble Loss on Ignition | 0.1wt% max 0.1wt% max | | |

| PbO | wt% max | 0.12 | - | | | | |
|--|--|------------------|---------------|--|--|--|--|
| CdO | wt% max | 0.02 | - | | | | |
| CuO | wt% max | 0.006 | - | | | | |
| Mn | wt% max | 0.0002 | - | | | | |
| Zn | wt% max | Nil | Nil- | | | | |
| Moisture | ppm max | 0.4 | 0.4 | | | | |
| HCI Insoluble | ppm max | 0.03 | - | | | | |
| Water Soluble | wt% max | 0.4 | 0.4 | | | | |
| Hiding Power | g/m2 max | - | 150 | | | | |
| Oil Absorption | g/100g max | - | 18 | | | | |
| Color | Killing % | - | 100 | | | | |
| Loss on Ignition | wt% max | 0.4 | - | | | | |
| Sieve Residue | wt% max | 0.5 (325mesh) | 0.5 (325mesh) | | | | |
| TRANSPORTATION | | | | | | | |
| | | | | | | | |
| | AZARD CLASS Hazard Symbols: XI; Risk Phrases: R 36/37/38 | | | | | | |
| UN NO. Not regulated MEMBERS OF PIGMENT WHITE | | | | | | | |
| C.I. Number Chemical n | | ame | CAS RN | | | | |
| Pigment wh | • | ide carbonate | 1319-46-6 | | | | |
| Pigment wh | • | | 7446-14-2 | | | | |
| Pigment wh | | | 1314-13-2 | | | | |
| Pigment wh | | | 1345-05-7 | | | | |
| Pigment white 6 Titaniur | | xide | 13463-67-7 | | | | |
| Pigment white 7 Zinc sulf | | | 1314-98-3 | | | | |
| Pigment white 10 Barium | | onate | 513-77-9 | | | | |
| Pigment white 11 Antimony t | | | 1309-64-4 | | | | |
| Pigment white 12 Zirconium ox | | | 1314-23-4 | | | | |
| Pigment white 14 Bismuth oxy | | | 7787-59-9 | | | | |
| Pigment white 17 Bismuth sub | | | 1304-85-4 | | | | |
| Pigment white 18 Calcium ca | | | 471-34-1 | | | | |
| | Pigment white 19 Kaolin | | 1332-58-7 | | | | |
| Pigment wh | | te | 7727-43-7 | | | | |
| - | Pigment white 24 Aluminum hy | | 21645-51-2 | | | | |
| | Pigment white 25 Calcium sulf | | 7778-18-9 | | | | |
| Piament wh | ite 25 Calcium sulf | | | | | | |
| | | | | | | | |
| Pigment wh | ite 27 Silicon dioxic | le | 7631-86-9 | | | | |
| - | ite 27 Silicon dioxic ite 28 Calcium me | de tasilicate | | | | | |