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| **1．Identification of the Substance/Preparation and of the Company/Undertaking** |
|  Product name: 1644 CAS No.: N/A Company/ undertaking identificationCompany: Zhongshan Zhongtai pigments Co.,Ltd. |
| **2. HAZARDS IDENTIFICATION** |
|  Not regarded as a health or environmental hazard under current legislation |
| **3**．**COMPOSITION/INFORMATION ON INGREDIENTS** |
| Composition: | Content | EINECS No. | CI No. | CAS No. | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| Synthetic Fluorphlogopite | 32.2-53% | 234-426-5 |  | 12003-38-2 | Not classified |
| Titanium Dioxide | 16-26% | 236-675-5 | 77891 | 13463-67-7 | Not classified |
| Silicon Dioxide | 31-41% | 231-545-4 |  | 7631-86-9 | Not classified |
| Tin Dioxide  | ≤0.8% | 242-159-0 | 77861 | 18282-10-5 | Not classified |
| No Ingredients classified as hazardous |  |  |  |
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| **4．FIRST AID MEASURES** |
| After inhalation (large amounts of dusts): Fresh air. (Consult doctor in the event of any complaints.)After skin contact: Wash off with water.After eye contact: Rinse out with water.After swallowing (large amounts): Consult doctor if feeling unwell. |
| **5．FIRE-FIGHTING MEASURES** |
| Protection during firefighting：Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not allow run-off from fire-fighting to enter drains or water courses.Extinguishing media:This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials |
| **6．ACCIDENTAL RELEASE MEASURES** |
| Person-related precautionary measures:Avoid inhalation of dusts.Procedures for cleaning/absorption:Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts. |
| **7. HANDLING AND STORAGE** |
| Handling: No further requirementsStorage: Tightly closed. Dry.Storage temperature: No restrictions.It’s 5 years for cosmetics and food grade products. |
| **8.** **EXPOSURE CONTROLS/PERSONAL PROTECTION** |
| **Synthetic Fluorophlogopite (12003-38-2)** |
| EU | Notes | SCOEL Recommendations (Ongoing) |
| United Kingdom | WEL TWA (mg/m³) | 4 mg/m³ respirable10 mg/m³ total inhalable |
| **Titanium dioxide (13463-67-7)** |
| EU | Notes | SCOEL Recommendations (Ongoing) |
| United Kingdom | WEL TWA (mg/m³) | 4 mg/m³ respirable10 mg/m³ total inhalable |
| Personal protective equipment:Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Appropriate engineering controls:Ensure good ventilation of the work station.In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P2. Standard EN149 - Filtering Halfmasks to protect against particlesEye protection: Safety glasses. Standard EN 166 - Personal eye-protection.Hand protection: Protective gloves. Standard EN 374 - Protective gloves against chemicals.Industrial hygiene: Wash hands after working with substance.Environmental exposure controls: Avoid release to the environment. |
| **9. PHYSICAL AND CHEMICAL PROPERTIES** |
| FormColorOdorPH value (100g/l H2O)Melting pointBoiling pointIgnition temperatureFlammability (solid, gas)Decomposition temperatureFlash pointExplosion limitsViscosity, kinematicViscosity, dynamicExplosive propertiesDensitySolubility in waterParticle sizeBulk density | PowderWhiteOdorless(20℃) (20℃) (20℃) | 6-10 (slurry)not availablenot availablenot availablenot flammablenot applicablenot availablenot availablenot applicablenot data availablenot data available2.2-3.2 g/cm3almost insoluble15-75µm0.5-0.8g/cm3  |
| **10. STABILITY AND REACTIVITY** |
| Reacticity: The product is non-reactive under normal conditions of use, storage and transport.Stability: Stable under normal conditions.Conditions to be avoided: Not relevant.Substances to be avoided: No information availableHazardous decomposition products: Not relevant.Further information: None |
| **11. Toxicological information** |
| Acute toxicity | Not classified |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |
| Respiratory or skin sensitisation | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |
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| **12. ECOLOGICAL INFORMATION** |
| Ecotoxic effects:Quantitative data on the ecological effect of this product are not available.Further ecologic data:No ecological problems are to be expected when the product is handled and used with due care and attention.  |
| **13. DISPOSAL CONSIDERATIONS** |
| Product:Chemicals must be disposed of in compliance with the respective national regulations.Packaging:The product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. |
| **14. TRANSPORT INFORMATION** |
| Entire package: not subject to transport regulations. |
| **15. REGULATORY INFORMATION** |
| EU-Regulations: Contains no REACH substances with Annex XVII restrictionsContains no substance on the REACH candidate listContains no REACH Annex XIV substancesNational regulations: No additional information availableChemical safety assessment: No chemical safety assessment has been carried out |
| **16. Other Information** |
| Abbreviations : |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| PBT | Persistent Bioaccumulative Toxic |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |