

FP-Pigments Statement Regarding the EU Classification of Titanium Dioxide and Mixtures Containing It

Titanium dioxide (TiO₂) has been given a harmonized hazard classification Carc. 2; H351 (Inhalation) in the 14th Adaptation to Technical Progress (ATP) to CLP regulation EC 1272/2008. In addition, ATP14 also sets new labelling requirements for titanium dioxide mixtures. The new classification and rules will apply from 1st October 2021.

The classification entry has been restricted to apply to powder forms only, and moreover, to forms containing 1 % or more of respirable TiO₂ particles. Respirable particles are defined in the entry as particles with **aerodynamic diameter ≤ 10 µm** set by European standard EN 481. The aerodynamic diameter is measured according to EN 15051-2 or similar dust test method.

According to the TiO₂ entry in the CLP Annex VI, the classification as Carc. 2; H351 (Inhalation) does not apply to TiO₂ mixtures in solid form when the concentration of respirable TiO₂ particles stays below 1%. At the same time, relevant EUH hazard statements can be applied and included in product safety data sheets and on product packaging labels.

Implications for FP-Opacity Pigment™ Powder Products

Given the above regulation, FP-Opacity Pigments™ in powder form that contain 1% or more of TiO₂ pigment have been analysed, following EN 15051-2, at an independent test facility for their respirable TiO₂ particle concentration. The results obtained showed that all FP-Opacity Pigment™ powders evaluated had less than 1% of particles with an aerodynamic diameter ≤ 10 µm. Based on the results, the classification criteria for TiO₂ mixtures are not met and therefore **FP-Opacity Pigments™ are not classified and do not require labelling according to Annex VI of CLP Regulation EC1272/2008.**

As per the regulations, FP-Pigments will add EUH212 and EUH210 statements to FP-Opacity Pigment™ powder product labels and regulatory documents.

Customers should ensure that their products are classified and labelled appropriately to meet the regulations. Please contact your FP-Pigments representative for further assisting if you have any question concerning this matter.

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