



February 28, 2020

### EU Classifies Titanium Dioxide as Category 2 Carcinogen by Inhalation

On February 18, 2020 the European Union published a delegated regulation classifying titanium dioxide (TiO2) as a category 2 suspected carcinogen by inhalation<sup>1</sup>. This classification is applicable to facilities handling/processing or selling dry, powder titanium dioxide where there is a potential for evolution of TiO2 particulates. Please note that Section 2.1.2 - mixtures containing titanium dioxide of the regulation addresses mixtures containing 1% or more of titanium dioxide. This section applies to TiO2 containing spray applications where respirable droplets are possible and operations (using mixtures) where TiO2 dust is evolved.

Note that this classification does not affect U.S. regulatory compliance (i.e. the Occupational Safety and Health Administration (OSHA) has not [changed its existing TiO2 classification](#) (see below).

### OSHA Annotated Table Z-1<sup>(a)</sup>

[\\*Go to list of all footnotes](#)

Substance	CAS No. <sup>(c)</sup>	Regulatory Limits			Recommended Limits	
		OSHA PEL <sup>(b)</sup>		Cal/OSHA PEL <sup>(f)</sup> <i>(as of 10/2/2019)</i>	NIOSH REL <sup>(g)</sup> <i>(as of 10/18/2019)</i>	ACGIH <sup>®</sup> 2019 TLV <sup>®</sup> <sup>(h)</sup>
		ppm <sup>(d)</sup>	mg/m <sup>3</sup> <sup>(e)</sup>	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
Titanium dioxide - Total dust	13463-67-7		15	See PNOR	Ca (ultrafine particles) 2.4 mg/m <sup>3</sup> (fine) 0.3 mg/m <sup>3</sup> (ultrafine) <a href="#">See Appendix A</a> <a href="#">See NIOSH Intelligence Bulletin 63</a>	10 mg/m <sup>3</sup>

A copy of the EU regulation is available on the NAPIM members' website:

<https://napimtech.org/Regulatory/TiO2>

If you have any questions or comments please contact George Fuchs at the NAPIM Office.

<sup>1</sup>under EU Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures