EU Legislation on Titanium Dioxide

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Titanium dioxide (TiO2)

- **Titanium dioxide pigment**: white powder with high opacity and brilliant whiteness. Valuable pigment and opacifier for a broad range of applications in paints, plastic goods, inks and paper, etc.
- Produced by two chemical processes: sulphate or the chlorine process
- Waste from production: solid waste, strong acid waste, weak acid waste, neutralised waste, treatment waste and dust





Titanium Dioxide legislation

3 directives

- 78/176/EEC waste from the titanium dioxide industry
- 82/883/EEC on procedures to monitor the environment concerned by the waste from titanium dioxide industry
- 92/112/EEC on procedures to harmonise the programmes for the reduction of waste caused by the TiO2 industry

Objective of Directives

Prevention of waste

- Progressive reduction and eventual elimination of negative environmental impacts of waste from TiO2 industry
- Waste arising from the 2 production processes in the TiO2 industry: Chlorine and sulphate process



Water



- MS shall prohibit the disposal of certain waste:
 - Solid and strong acid waste from both processes
 - Treatment waste from the sulphate process
- MS shall insure that industry meets set out limit values when waste is discharged into water referring to:
 - Weak acid waste and neutralised waste from both processes and also treatment waste from chlorine process

Air



 MS shall prohibit the emission of acid droplets from the sulphate process

 MS shall insure that each industry establishment meets set out limit values referring to: dust, SOx, chlorine

Water + Land+ Air

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 MS shall prohibit disposal of waste from the TiO2 industry unless prior authorisation granted by MS concerned, subject to specific conditions

 Authorisation given for limited period only, that can be renewed

New Industrial Establishments

New industrial establishments need prior authorisation from MS



- MS shall monitor the compliance with the limit values
- MS shall monitor waste disposal from the TiO2 industry into water, air and land according to provisions (Annex to the directive 82/883/EEC) -Mandatory and optional monitoring with a certain frequency
- MS appoint a competent authority to carry out the monitoring
- Reporting by MS to the COM every 3 years





Simplification of the directives

1 simplified directive with deleted obsolete provisions

Proposal for Commission adoption this year

Contact details

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