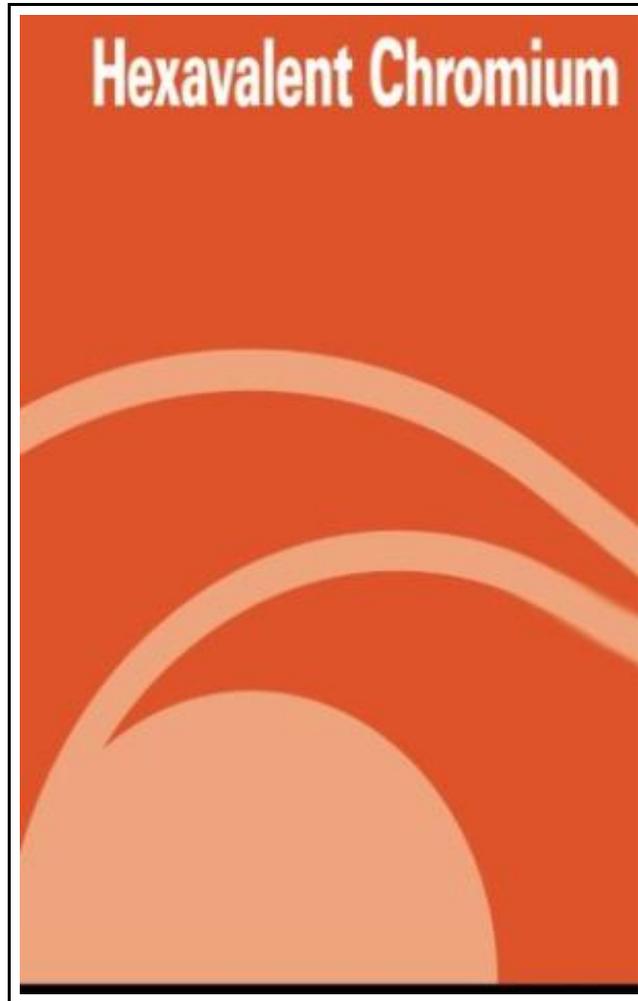


Hexavalent Chromium



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Reviews

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HEXAVALENT CHROMIUM



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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 8.0in. x 5.0in. x 0.1in. OSHA 3373-10, Hexavalent Chromium is intended to supplement OSHA's Small Entity Compliance Guide for the Hexavalent Chromium Standards published in 2006 and to give readers an overview of the provisions and requirements of the Hexavalent Chromium standards for general industry (29 CFR 1910. 1026), shipyards (29 CFR 1915. 1026), and construction (29 CFR 1926. 1126). Hexavalent chromium (Cr(VI)) is a toxic form of the element chromium. Hexavalent chromium is rarely found in nature and is generally man-made. Cr(VI) is widely used in pigments, metal finishing (electroplating), wood preservatives and fungicides, and in chemical synthesis as an ingredient and catalyst. Hexavalent chromium may also be present in fumes generated during the production or welding of chrome alloys. Chromium metal is often alloyed with other metals or plated on metal and plastic substrates to improve corrosion resistance and provide protective coatings. The steel industry is a major consumer of chromium metal in the production of stainless steel. Since 2000, there has been a decline in the use of chromates in pigments for paints and coatings; printing inks; ceramic, glass and construction materials; roofing and plastics. Employers are substituting less toxic inorganic and organic pigments where possible (SRI Consulting, 2008). Workplace exposure to Cr(VI) may cause the following health effects: lung cancer in workers who breathe airborne Cr(VI); irritation or damage to the nose, throat and lungs (respiratory tract) if Cr(VI) is inhaled; and irritation or damage to the eyes and skin if Cr(VI) contacts these organs. Workers can inhale airborne Cr(VI) as a dust, fume or mist while, among other things, producing chromate pigments, dyes and powders (such as chromic acid and chromium catalysts); working near chrome electroplating; performing hot work...



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