HEXAVALENT Chromium



WHERE IS IT USED?¹

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- Hexavalent chromium (Cr(VI), is used in metallurgy and cement industries²
- Exposure risk during welding
 and chromic acid plating
- Added to paints and coatings due to anti-corrosive properties



SIGNS OF EXPOSURE

When Cr(VI) dust is inhaled, nasal mucosal polyps can form, leading to:³ • Respiratory irritation

- Sinusitis
- Nausea and vomiting
- Contact with skin can result in:⁴
- Allergic/contact dermatitis
- Cement burns

PRECAUTIONS⁵

- Wear personal protective equipment if there is risk for skin or eye contact
- Regular air monitoring to keep dust levels in check
- Use proper respiratory protection to reduce inhalation
- Practice proper housekeeping and cleaning procedure

EXPOSURE PROCEDURE

- In the event of an exposure, one should.⁶
 Receive emergency medical
 - attention
- Keep airway and heart monitored
- Drink fluids and electrolytes
- If contacted with skin or eyes, flush with water

LONG-TERM EXPOSURE:

Long term exposure to chromium in the workplace can lead to allergic contact dermatitis, lung cancer, kidney disease, and occupational asthma.⁴





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