

CHROMATE

Meaning: Chromate is a chemical compound containing the chromate ion (CrO_4^{2-}), commonly used in pigments and dyes and associated with environmental and health concerns.

1. Chromate is often used in the manufacturing of pigments and dyes due to its vibrant colors.
2. The presence of chromate in the water supply raised concerns among local residents about potential health risks.
3. In the laboratory, researchers are exploring ways to convert harmful chromate ions into less toxic compounds.
4. Chromate compounds can have severe environmental impacts, especially in soils contaminated by industrial activities.
5. Regulatory agencies have set strict limits on chromate levels in products to protect consumer health.

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