



# *Potassium dichromate*

## *Product Stewardship Summary*

Chemical Name:	Potassium dichromate
Synonyms:	CHROMIC ACID (H <sub>2</sub> CR <sub>2</sub> O <sub>7</sub> ), DIPOTASSIUM SALT; Potassium bichromate; Dipotassium bichromate
CAS Number:	7778-50-9
EC (EINECS) Number:	231-906-6
Revision number:	1-2024

- **Chemical identification and uses:** Potassium dichromate is a potassium salt, typically seen in the form of bright, red-orange crystals. It is highly corrosive and also a strong oxidizing agent, which makes it useful as an inorganic chemical reagent. Aside from laboratory use and use in the cleaning, construction, and printing industries, it is primarily used as a precursor to potassium chrome alum, which is used in leather tanning.
- **Potential exposures:** Exposure to potassium dichromate can occur in industrial/manufacturing facilities and laboratories. Workers risk exposure primarily through skin contact, as well as through inhalation or ingestion. Good manufacturing and industrial hygiene practices should be followed to prevent or reduce contact. See the Safety Data Sheet (SDS) for additional information.
- **Human Health hazards:** Potassium dichromate is both acutely and chronically harmful to human health. It can cause severe skin burns and eye damage and may be fatal if inhaled. Like other hexavalent chromium compounds, potassium dichromate is carcinogenic. It may also impair fertility and cause genetic defects. As an oxidizer, it may intensify fire, particularly in the presence of other combustible materials, so it should be stored respectively. Harm can occur through various routes and proper PPE should be worn at all times when handling. One should refer to the Safety Data Sheet (SDS) for additional information and any specific protective information.
- **Environmental Health hazards:** Potassium dichromate is very toxic to aquatic life, both acutely and chronically. As such, proper procedures should be in place to keep it from entering the environment.
- Please contact us at [ESSPSCustomerCare@Honeywell.com](mailto:ESSPSCustomerCare@Honeywell.com) for more information. Additional information may also be found at the following links:
  - [EPA - Potassium dichromate](#)
  - [Pubchem - Potassium dichromate](#)

*This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.*