



Chromium (VI) oxide

Product Stewardship Summary

Chemical Name:	Chromium(VI) oxide
Synonyms:	Chromium trioxide, Chromium oxide (CrO ₃), Tris(oxido)chromium
CAS Number:	1333-82-0
EC (EINECS) Number:	215-607-8
Revision number:	1-2024

- **Chemical identification and uses:** Chromium (VI) oxide is an inorganic acidic anhydride of chromic acid. It appears as an odorless, dark-violet solid under anhydrous conditions and is not flammable; however, it does decompose on heating as a Globally Harmonized System (GHS) classified Category 1 oxidizing solid. Millions of kilograms are produced annually, mainly for use in electroplating. It can also be used in the production of wood preservatives and organic chemicals.
- **Potential exposures:** Exposure to chromium (VI) oxide can occur in industrial/manufacturing facilities and/or during consumer use where the chemical is present in finished household products. Workers and consumers risk exposure through a variety of routes, including inhalation, oral, and dermal 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:** Chromium (VI) oxide is fatal if inhaled and toxic if swallowed or in contact with skin. It may cause an allergic skin reaction. It may cause asthma symptoms or breathing difficulties if inhaled. It may also cause severe skin burns and eye damage. It is also classified as a known carcinogen, per NTP, and is a Group 1 carcinogenic substance per IARC. It may cause cancer and/or genetic defects and is suspected of damaging fertility or the unborn child. Chromium (VI) oxide causes damage to respiratory tract and kidney through prolonged or repeated exposure. One should refer to See the Safety Data Sheet (SDS) for additional information and any protective information.
- **Environmental Health hazards:** Chromium (VI) oxide is very toxic to aquatic life with long lasting effects. Therefore, it should be disposed of to an approved waste disposal plant following local regulations.
- Please contact us at ESSPSCustomerCare@Honeywell.com for more information. Additional information may also be found at the following links:

[EPA - Chromium\(VI\) oxide](#)

[Pubchem - Chromium\(VI\) oxide](#)

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.