

Identification

CrO₃
M = 99,99 g/mol
CAS [1333-82-0]
EC number: 215-607-8
Taric code: 2819 10 00

Synonyms

Chromium trioxide, Chromic anhydride

Applications

analytical chemistry, corrosion inhibitor, photography, oxidizing agent (synthesis of organic products), microscopy.

Specifications

assay (iodometric).....min. 99 %	chlorides (Cl)..... max. 0,02 %
insoluble in water..... max. 0,1 %	sulfates (SO ₄)..... max. 0,05 %
	loss on drying (105 °C)..... max. 1 %

Physical data

- Spec. Density: 2,7 g/cm³
- Bulk density: ~ 900 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 197 °C
- pH(100 g/l H₂O, 20 °C) < 1
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H271: May cause fire or explosion; strong oxidiser.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H330: Fatal if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340: May cause genetic defects.
H350: May cause cancer.
H372: Causes damage to organs through prolonged or repeated exposure.
H361f: Suspected of damaging fertility.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H317: May cause an allergic skin reaction.



Precautionary Statements:

- P221: Take any precaution to avoid mixing with combustibles.
P283: Wear fire / flame resistant / retardant clothing.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P320: Specific treatment is urgent (see on this label).
P370+P378: In case of fire: Use ... for extinction.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 5.1 OTC II • UN 1463 • CHROMIUM TRIOXIDE, ANHYDROUS
- IMDG: 5.1 II • UN 1463 • CHROMIUM TRIOXIDE, ANHYDROUS
- IATA/ICAO: 5.1 II • UN 1463 • CHROMIUM TRIOXIDE, ANHYDROUS
- PAX: 508
- CAO: 511
- 15°C - 25°C