



Chromic Acid Flake CA ULTRA

GENERAL DESCRIPTION:

Chromic Acid Flake CA ULTRA is a premium quality product that is made in the U.S.A. and exceeds GSA Commercial Item Description specifications for Technical Grade chromic acid. It is specially processed to be virtually dust-free while still providing excellent storage, handling and quick dissolving qualities. The low sodium content is suitable for use in catalysts and other special applications.

The major uses of chromic acid are in metal finishing and plating applications and in wood preservation. Secondary uses include catalyst manufacture and magnetic recording tapes.

Chromic acid is used in applications including decorative and functional electroplating, anodizing of aluminum, sealing phosphate coatings applied to iron or steel to improve their corrosion resistance. Other applications in the metal the metal finishing field include its use for bright dipping of brass and acid cleaning of aluminum and magnesium.

Chromic acid is a powerful oxidizing agent, which leads to a variety of uses in organic syntheses and in the bleaching of oils, fats and waxes. Chromic acid is used in the manufacture of other chromium compounds and as an analytical reagent.

PHYSICAL PROPERTIES:

- ◆ Chemical Formula - CrO₃
- ◆ Molecular Weight - 99.99
- ◆ CAS Number - 1333-82-0
- ◆ Appearance - Dark Reddish Purple Flakes
- ◆ True Density - 2.7 @ 20° C (68° F)
- ◆ Bulk Density - Loose: 62-72 lbs. per cubic foot
- ◆ Stability in Air - Very hygroscopic and deliquesces at humidity above 30%
- ◆ Solubility in Water - Highly soluble: 62.5% w/w at 20° C (69° F)
- ◆ Heat of Solution - Exothermic (24.7 cal./g.; 44.5 BTU/lb.)
- ◆ Behavior on Heating - Melts at 197° C (387° F); starts to decompose to intermediate chromium oxides at slightly higher temperatures.

Chemical Characteristics - Chromic acid is a strong acid and oxidizing agent.

When neutralized with alkalis, chromic acid forms dichromate or chromate compounds.

In oxidation reactions the chromium atom is reduced from the hexavalent to trivalent state.

WASTE DISPOSAL:

This material must be disposed of in accordance with all applicable federal, state, and local regulations and permits. Consult the SDS for additional regulatory information.

GENERAL SAFETY PRECAUTIONS:

Avoid direct contact with this material. Do not inhale associated mist, vapors, and/or dust. As applicable, keep exposure below the limits recommended by OSHA, ACGIH, the manufacturer, and others. Wash contaminated clothing before reuse. Always comply with the Hazard Communication Standard, 29 CFR 1910.1200. Emergency showers and eyewashes must be readily available.

It is recommended that the plating chemistry product(s) referred to in this Technical Information sheet be used: (1) in accordance with the information provided in product specific SDS; and (2) in compliance with all appropriate requirements and guidelines established by OSHA, NIOSH, ACGIH, NFPA, and others.

A Safety Data Sheet (SDS) for this product is available on request from Chemical Distributors, Incorporated.

[For more detail about product handling & safety info, please refer to the Safety Data Sheet](#)