
Chemical Safety Technical Instructions

Part 1: Chemicals and enterprise marks

Chinese chemical name: chromium acetate

Chemical trade name or commodity name:

Chemical name: Chromium acetate

Company name: Shaanxi Dongzheng Chemical Co., LTD., Shangnan County, Shaanxi Province

Address: Renjiagou, Chengguan Town, Shangnan County, Shangluo City, Shaanxi Province

Email address: Sales@dongzhengchemical.com

Postal code: 726300

Technical specification code:

Effective date: January 1, 2025

Enterprise emergency phone (country or area code)(area code)(phone number): +86-13991503401

Fax number (country or area code) (area code) (phone number): +86-13991503401

National emergency number:

Molecular formula: $\text{Cr}(\text{C}_2\text{H}_3\text{O}_2)_3$

Part 2: Overview of hazardous materials

Dangerous category:

Intrusion: inhalation, ingestion, transdermal absorption.

Health hazards: Inhalation irritates the respiratory tract, causing cough and shortness of breath. It irritates the eyes and skin. Prolonged exposure may cause dermatitis, blood damage, liver damage, nasal mucosal ulcers, and nasal septum perforation.

environment hazards :

Danger of explosion: the product is flammable, irritating and sensitizing.

Part 3: Composition Information

√Purified

mixture

Hazardous components	potency	CAS NO
chromic acetate	≥98%	10066-30-4

Part 4: First Aid

Skin contact: Wash immediately with plenty of soap.

Eye contact: Contact the eyes immediately with a large amount of water and seek medical treatment.

Inhalation: Move the person to fresh air immediately. Keep the airway clear. Administer oxygen if breathing is difficult. If breathing stops, perform CPR immediately. Seek medical attention.

Food intake: Do not induce vomiting; seek immediate medical attention and show the product container or label.

Part V: Fire safety measures

Dangerous characteristics: generate very sensitive and explosive metal compounds, heating will cause explosion, encounter with combustible materials will cause fire, may generate explosive peroxide substances, may be inhaled

during use will cause cancer, transform into highly flammable substances.

Harmful combustion products: carbon monoxide, carbon dioxide.

Firefighting method: Firefighters must wear gas masks and full-body fire suits and fight the fire upwind. Firefighting agents: fog water, foam, dry powder, carbon dioxide, sand.

Part VI: Emergency treatment of leakage

Emergency Response: Isolate the contaminated area and restrict access. Emergency responders should wear dust masks and acid/alkali-resistant protective suits. Avoid direct contact with the spill. For minor leaks: Cover the area with dry sand, vermiculite, or other inert materials. Collect the spill using a clean shovel into a sealed container. For major spills: Collect and recycle the spill or transport it to a waste disposal facility.

Part 7: Handling and storage

Safety Guidelines for Operations: Conduct operations in enclosed spaces with adequate local exhaust ventilation to prevent dust dispersion into workshop air. Operators must undergo specialized training and strictly adhere to operational protocols. Recommended protective equipment includes: full-face dust masks, full-body rubber-coated protective suits, and rubber gloves. Maintain strict distance from ignition sources and heat. Smoking is prohibited in work areas. Keep flammable materials and combustibles away. Prevent dust generation. Avoid contact with reducing agents. Ensure proper fire suppression equipment and emergency spill response devices are available. Empty containers may contain residual hazardous substances.

Storage precautions: Store in a cool, well-ventilated warehouse. Keep away from fire sources and heat sources. Protect from direct sunlight. Keep the package sealed. Store separately from reducing agents and flammable materials. Do not store together. The storage area should be equipped with suitable materials to contain leaks.

Part 8: Contact control/individual prevention

maximum allowable concentration : :

maximum allowable concentration : :

Monitoring methods: flame atomic absorption spectroscopy; catalytic polarography

Engineering control: sealed operation, local exhaust.

Respiratory protection: In case of possible exposure to its dust, a dust mask (full face) must be worn. In case of emergency rescue or evacuation, an air respirator should be worn.

Eye protection: Wear chemical safety goggles.

Body protection: Wear anti-toxin permeation work clothes.

Hand protection: Wear rubber gloves.

Other precautions: Do not smoke, eat, or drink on the work site. Shower and change clothes after work. Maintain good hygiene habits.

Part IX: Physicochemical characteristics

Appearance and properties: gray-green or blue-green paste.

Ph price :

Melting point (°C): 140 (-H₂O)

Relative density (water = 1):1.705

Boiling point (°C): Not available

Relative density (air = 1): No data

Saturated steam pressure (kPa): No data

Combustion heat (kJ/mol): Not available

Critical temperature (°C): Not specified

Critical pressure (MPa): None

Octanol/water partition coefficient: No data

Flash point (°C): Not applicable

Ignition temperature (°C): Not significant

Lower explosive limit [% (V/V):] Not specified

Maximum explosion limit [% (V/V):] Not specified

Minimum ignition energy (mJ): Not specified

Maximum explosion pressure (MPa): None

Solubility: soluble in water and ethanol.

Main uses: printing and dyeing industry for printing and dyeing wool, cotton, silk, artificial fiber as a medium, organic synthesis as a catalyst and chromium catalyst, used in film, photography, film development, projection and as a tanning agent.

Part X: Stability and reactivity

Stability: No data

Polymer hazard: No data

Conditions for avoiding contact: None

Forbidden compounds: No data available

Decomposition products: No data

Part XI: Toxicology data

Acute toxicity (LD50): 708 mg/kg (rat, oral)

LC50: Not available

Irritant: No data

Allergenicity: Not available

Mutagenicity: Not available

Teratogenicity: No data

Part XII: Ecological information

Ecotoxicity:

biodegradability :

Non-biodegradable:

Other harmful effects: the substance is harmful to the environment, it is recommended not to let it into the environment.

Part XIII: Waste treatment

Waste type:

Disposal methods: When the quantity is small, dissolve in water or an appropriate acid solution, or convert it into an aqueous solution using an appropriate oxidant. Precipitate the sulfides by adjusting the pH to 7. Filter out the solid sulfides for recovery or landfill disposal. Neutralize excess sulfides with sodium hypochlorite, then flush into the sewer system.

Precautions:

Part XIV: Transport information

Dangerous goods number: No data

UN number: No data available

Packaging label: No data

Package type: No data

Packaging methods: All openings of steel drums are covered with plastic bags or double-layer kraft paper bags; ordinary wooden crates are used for plastic bags or double-layer kraft paper bags; threaded glass bottles, iron-capped press-molded glass bottles, plastic bottles, or metal drums (cans) are stored in ordinary wooden crates; threaded glass bottles, plastic bottles, or tin-coated thin steel drums (cans) are packed in full-bottomed lattice boxes, fiberboard boxes, or plywood boxes.

Transportation Guidelines: Ensure complete packaging and secure loading during shipment. Maintain container integrity throughout transit to prevent leakage, collapse, falling, or damage. Strictly prohibit mixing with food-grade chemicals or other incompatible materials. Protect against sun exposure, rain, and extreme heat during transit. Transport vehicles must be equipped with appropriate types and quantities of fire-fighting equipment and emergency spill response devices. Vehicles transporting this product must have flame arrestors on exhaust pipes. During stops, maintain distance from ignition sources and heat. Conduct thorough cleaning after transportation. When using road transport, strictly follow designated routes.

Part XV: Regulatory information

Regulatory information:

Regulations on the Safety Management of Chemical Hazardous Substances (issued by the State Council on February 17, 1987), the Detailed Rules for the Implementation of the Regulations on the Safety Management of Chemical Hazardous Substances (Hua Lao Fa [1992] No.677), and the Provisions on the Safe Use of Chemicals in Workplaces ([1996] Lao Bu Fa No.423) and other relevant regulations have established corresponding provisions for the safe use, production, storage, transportation, and handling of chemical hazardous substances.

Part XVI: Other information

References: Implementation Rules of Regulations on Safety Management of Chemical Hazardous Substances
Regulations on the Safety Management of Hazardous Chemicals (State Council Decree No.591)

Form filling date: January 2, 2015

Filling department: Dongzheng Chemical Co., LTD., Shangnan County, Shaanxi Province

Data audit unit: Shanghai Entry-Exit Inspection and Quarantine Bureau-Industrial Products and Raw Materials Testing Technology Center

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Other information: