

March 27, 1995

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 ACCOUNTS PAYABLE

SUBSTANCE: Chrome Oxide
 TRADE NAMES/SYNONYMS: #434
 CHEMICAL FAMILY: Oxide
 FORMULA: Cr₂O₃

SECTION I - PRODUCT IDENTIFICATION
 98 MAY -4 PM 1:36

SECTION II - HAZARDOUS INGREDIENTS

COMPONENT	CAS NO.	PERCENT	EXPOSURE LIMITS
Chromic Oxide	1308-38-9	> 98	OSHA PEL 0.5 mg/m ³ as Cr-8 Hr. TWA ACGIH TLV 0.5 mg/m ³ as Cr-8 Hr. TWA

SECTION III - PHYSICAL DATA

Boiling Point (°F)	N/A	Specific Gravity (H ₂ O = 1)	5.1
Vapor Pressure (mm Hg)	N/A	Percent Volatile by Volume	N.A.
Vapor Density (Air = 2)	N/A	Evaporation Rate (H ₂ O=1)	N.A.
Solubility in water	Insoluble		
Appearance and Odor	Green powder, no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Fire and Explosion Hazard: None
 Flash Point: Not flammable
 Extinguishing Media: As applicable to other materials involved in the fire.
 Special Fire Fighting Procedures: Use self-contained breathing apparatus.
 Unusual Fire and Explosion Hazards: None

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value: ACGIH 0.5 mg/m³ as Cr - 8 Hr. TWA
 Toxicity: Chromic oxide fed to rats in dosage up to 5% for two years produced no treatment related effects (NOEL). Chromic oxide is not listed as a carcinogen by NTP, IARC, or OSHA.

Health Effects and First Aid:

Effects of Overexposure: Acute effects may include irritation of skin, eyes, nose, throat and respiratory tract. Long-term overexposure by breathing dust may cause damage to the lungs and respiratory tract.

Emergency and First Aid Procedures:

Eyes: Flush with copious amounts of water.
 Skin: Wash thoroughly with soap and water.

If irritation occurs seek medical attention. Thoroughly clean contaminated clothing and shoes before reuse.

SECTION VI - REACTIVITY

Reactivity: Stable
 Incompatibilities: Can react with molten alkali at very high temperatures under oxidizing conditions. May react with chlorine trifluoride, lithium, nitroalkanes, dirubidium acetylide, oxygen difluoride and other strong oxidizers.
 Hazardous Decomposition Products: A small amount (less than 0.1% as Cr) of reversion to hexavalent chromium may occur if this product is exposed to elevated temperatures.
 Hazardous Polymerization - Conditions to Avoid: None

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Carefully shovel or sweep spilled material into a closed metal container for reclamation or disposal. All visible spilled material must be removed.
 Waste Disposal Method: Dispose of in accordance with local, state and federal regulations. As shipped from manufacturer, this product does not exceed the RCRA extraction procedure limit of 5 ppm for total soluble chromium. Additional processing, especially at elevated temperatures may cause chemical reactions which produce substances which will exceed the RCRA limit. Testing of processed material should be performed to determine the proper waste classification.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: MSHA/NIOSH approved filter type respirator used in accordance with the requirements of 29 CFR 1910.134.

Ventilation: Sufficient to maintain workplace concentration below TLV.

SECTION VIII - SPECIAL PROTECTION INFORMATION CONT'D

Protective gloves: Rubber, PVC or neoprene gloves are recommended to prevent skin contact.

Eye Protection: Safety glasses. Close-fitting chemical safety goggles are recommended when dust is present.

Other Protective Equipment: Rubber boots, long-sleeve shirt and hard hat are recommended. Availability of safety shower and eyewash fountain is recommended.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Store in a dry place.

Handle material so as to avoid generation of airborne dust.

Avoid breathing dust.

Keep separated from food products.

Other Precautions: Since actual use by others is beyond the control of American Chrome & Chemicals Inc., users must take precautions to ensure that the environmental controls are adequate to maintain conditions within the required exposure levels for this product and any reaction products.

SECTION X - APPLICABLE REGULATIONS

FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA)

Chromic oxide is on the 8(b) Inventory List (40 CFR 710).

FEDERAL WATER POLLUTION CONTROL ACT CLEAN WATER ACT, 40 CFR 116

Chromic oxide is covered by the Clean Water Act as CHROMIUM and COMPOUNDS

CLEAN AIR ACT, 40 CFR 60, SECTION III, 40 CFR 61, SECTION 112

Chromic oxide is covered by the Clean Air Act as CHROMIUM and COMPOUNDS

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200

Under this rule, chromic oxide is hazardous. ACGIH TLV 0.5 mg/m³ TWA (as Cr)

CERCLA, 40 CFR 117.302

Chromic oxide does not have a listed reportable quantity (RQ).

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III)

Chromic oxide is subject to the reporting requirements of Sections 311, 312, and 313.

Chromic oxide is not listed in appendix A and B, 40 CFR 355, as an Extremely Hazardous Substance.

Our hazard evaluation of chromic oxide has determined that this product should be reported under the following EPA hazard categories as indicated.

- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Fire hazard
- Sudden release of pressure hazard
- Reactive hazard

STATE REGULATIONS

CALIFORNIA PROPOSITION 65

This material may contain approximately 100 ppm hexavalent chromium. Hexavalent chromium is on the California Governor's list of "chemicals known to cause cancer or reproductive toxicity". The California Health and Welfare Agency has established a "no significant risk" level for hexavalent chromium of 0.001 micrograms/day. Workplace exposures to this product below the TLV for chromic oxide could result in exposures to hexavalent chromium in excess of 0.001 microgram/day. Appropriate warnings should be given.

This Material Safety Data Sheet has been prepared to comply with OSHA Hazard Communication Standard 29 CFR 1910.1200.

The information given above is believed to be accurate and was obtained from sources believed to be reliable. However, the information is provided without any representation or warranty, expressed or implied, with respect to its accuracy or completeness. It is the users' responsibility to determine the suitability of this product and relevance of this information for their use. We do not assume liability resulting from the use, handling, storage and disposal of this product.

N/A - Not applicable
NI - No Information Available

DATE: 3-28-95