

APG**Analytical Products Group, Inc.**2730 Washington Blvd., Belpre, OH 45714
740-423-4200 800-272-4442 Fax 740-423-5588**Material Safety Data Sheet**

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Page 1

Section I: Product Identification

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|--|-----------------------------------|
| CATALOG NUMBER: 1400/4180/4182/4183/224180/6250/6252 | PRODUCT NAME: Hexavalent Chromium |
|--|-----------------------------------|

Section II - Hazardous Ingredients/Identity Information

| Chemical Name | CAS Reg. No. | OSHA PEL (TWA) | % Composition* |
|---------------|--------------|----------------|----------------|
| Nitric Acid | 7697-37-2 | 2 ppm | 1.2% |

Non-Hazardous Ingredients/Identity Information

| Chemical Name | CAS Reg. No. | OSHA PEL (TWA) | % Composition* |
|----------------------|--------------|----------------|----------------|
| Potassium Dichromate | 7778-50-9 | | <0.02% |
| Water | | | >98% |

* Components are calculated on a weight/weight basis.

Section III - Physical/Chemical Characteristics of Hazardous Ingredients**Nitric Acid**

| | |
|--------------------------------|---|
| BOILING POINT: >83°C | SPECIFIC GRAVITY: Water = 1.5027 @ 25 °C |
| VAPOR PRESSURE: 47.9 mm @ 20°C | SOLUBILITY IN WATER: Complete |
| | APPEARANCE/ODOR: Colorless to pale yellow liquid with suffocating odor. |

Section IV - Fire and Explosion Hazard Data

| | | | | |
|--|--|-----------------------------------|--------|--------|
| FLASH POINT (Method used): Not available | AUTO IGNITION TEMPERATURE: Not available | FLAMMABLE LIMITS Not available | LEL NA | UEL NA |
| EXTINGUISHING MEDIA: Non-flammable, use extinguisher media appropriate for surrounding the fire. | | | | |
| SPECIAL FIRE FIGHTING PROCEDURES: NA | | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: NA | | | | |

Section V - Reactivity Data

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|--|------------------------------------|--|---------------------------------|
| STABILITY: | Unstable <input type="checkbox"/> | Stable <input checked="" type="checkbox"/> | Conditions to Avoid: None known |
| INCOMPATIBILITY (Materials to avoid): Concentrated Nitric Acid will react violently with organic and hydrophobic compounds. | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: None known | | | |
| HAZARDOUS POLYMERIZATION: | May Occur <input type="checkbox"/> | Will Not Occur <input checked="" type="checkbox"/> | Conditions to Avoid: NA |

Section VI - Health Hazard Data

| | | | |
|---|-----------------|-----------|----------------|
| ROUTES OF ENTRY | Inhalation? YES | Skin? YES | Ingestion? YES |
| HEALTH HAZARDS (Acute and Chronic): ACUTE: No CHRONIC: Chromium is a human poison by ingestion. Long term effects are localized itching, burning and dermatitis. Individuals with bronchial asthma can be affected. The metal is a severe irritant of the mucous membranes. | | | |

COMPONENTS LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS: Chromate is listed in the IARC Monograph as carcinogen. The concentrations of chromate in the analytical standards are less than 0.1%

SIGNS AND SYMPTOMS OF EXPOSURE: See under chronic health hazards.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Individuals with dermatitis.

EMERGENCY AND FIRST AID PROCEDURES: Seek medical assistance for treatment, observation and support if necessary. EYE CONTACT: Wash immediately with large amounts of water, occasionally lifting upper and lower eyelids (15-20 minutes). SKIN CONTACT: Wash affected area with soap and large amount of water (15-20 minutes). In case of chemical burns, cover area with sterile, dry pad. INHALATION: N/A INGESTION: Drink large quantities of water or milk. If vomiting persists administer fluids repeatedly.

Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Add neutralizing agent, flush to sewer.

WASTE DISPOSAL METHOD: Observe all federal, state, and local regulations. Samples should be diluted for disposal unless local practice procedures specify otherwise.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: These analytical standards may be stored in a non-hazardous chemical storage.

OTHER PRECAUTIONS* Never heat or evaporate analytical standards to dryness.

Section VIII - Control Measures

RESPIRATORY PROTECTION (Please specify): Depends on contamination levels in the workplace.

VENTILATION: Local exhaust.

PROTECTIVE GLOVES: Employee should wear appropriate protective gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: N/A

EMERGENCY WASH FACILITIES: Maintain eye wash and quick drench showers in work area.

Section IX – WHMIS Class: E – Corrosive Material

The information stated in this Material Safety Data Sheet (MSDS) is believed to be correct on the date of publication and must not be considered all conclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. Persons not specifically and properly trained should not handle this chemical or its container. This MSDS is provided without any warranty expressed or implied, including merchantability or fitness for any particular purpose.

This product is furnished for laboratory use ONLY! Our standards may not be used as drugs, cosmetics, agricultural or pesticidal products, food additives or as house hold chemicals.

* Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Environmental Protection Agency, and others) may have specific regulations concerning the transportation, handling, storage or use of this product which may not be contained herein. The customer or user of this product should be familiar with these regulations.