**GFS CHEMICALS, INC.**
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# MATERIAL SAFETY DATA SHEET

747

## CHROMIUM STANDARD SOLUTION

| CHEMICAL NAME & SYNONYMS | DOT CLASS | SARA TITLE 313 |
|---|---|---|
| Chromium, 1,000 ppm Standard Solution | NR | Yes-Cr Cmpds. |
| | **TSCA listed** - Yes | |

| FORMULA | REPORTABLE QUANTITY | F.W. | CAS# |
|---|---|---|---|
| $K_2Cr_2O_7$ <0.3% | 4.54 kg | 294.19 | 7778-50-9 |
| $H_2O$ > 99% | N/A | 18.02 | 7732-18-5 |

**PHYSICAL DATA**
Density 1.00; Boiling point about 100°C; Completely miscible with water.

**APPEARANCE & ODOR**
Clear, orange solution. Odorless.

**REACTIVITY & CONDITIONS TO AVOID**
Stable. Reacts with reducing materials. Environmental hazard.

**FIRE HAZARDS**
Will volatilize in general fire. Firefighters wear SCBA. NFPA # 2-0-0.

| EXTINGUISHER | FLASHPOINT | LEL | UEL |
|---|---|---|---|
| Fight surrounding fire. | N/A | N/A | N/A |

**HEALTH HAZARDS**
May be irritating to skin, eyes and mucous membranes. $LD_{50}$ (oral-rat) 25 mg (100% basis)/kg. ACGIH TLV: TWA .05 mg $(CrO_3)/m^3$; OSHA PEL 0.1 mg $(CrO_3)/m^3$. ACGIH A1 - confirmed human carcinogen; NTP - known carcinogen. Warning: This product contains a chemical (hexavalent chromium compounds, 1000 ppm Cr) known to the state of California to cause cancer.

**SPECIAL PRECAUTIONS**
Use rubber gloves and goggles to handle in quantity. Avoid all contact.

**FIRST AID**
Wash thoroughly after use. For eye contact, wash thoroughly with water and get medical attention if irritation persists. If swallowed, give water or milk and get immediate medical attention. Do not induce vomiting unless directed by a physician.

**SPILLS & LEAKS**
Contain spill. Wash up with water. Disposal to hazardous waste. Environmental hazard.

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| CATALOG # | PREPARED BY | DATE |
|---|---|---|
| 747 | MDM | November 11, 2005 |