

# MSDS

H.R. Simon and Company, Inc. (800) 638-9460  
3515 Marmenco Court  
Baltimore, Maryland 21230  
for chemical **Emergency: (800) 424-9300**

## Section 1 Identification:

**Chemical Family:** Aqueous Acidic Solution

**Date:** 01-02

**Chemical Name:** X-Ray Developer Systems Cleaner 'The Red Stuff'

**MSDS Number:** S70-022

## Section 2 Composition (Ingredients required)

Name	%	CAS Number	ACGIH(TLV)	OSHA (PEL)
Sodium Dichromate Dihydrate	6 – 10	7789-12-0	0.05mg/m <sup>3</sup> TWA	0.5mg/m <sup>3</sup> TWA
Sulfuric Acid	6 – 10	7664-93-9	1 mg/m <sup>3</sup> STEL	1 mg/m <sup>3</sup> TWA
Water	80 – 88	7732-18-5	None listed	None listed

## Section 3 Hazards Identification:

### Symptoms of over exposure:

**Eye:** May cause severe eye burns. May cause irreversible eye injury.

**Skin:** May cause skin burns. May cause skin sensitization, allergic reaction that may become evident upon re-exposure to this material.

**Ingestion:** May cause severe and permanent damage to the digestive tract. May cause gastrointestinal tract burns.

**Inhalation:** May cause severe irritation to the respiratory tract resulting in sore throat, coughing, and shortness of breath and delayed lung edema.

### Medical Conditions Aggravated by Exposure

May cause asthmatic attacks due to allergy sensitization of the respiratory tract.

### Primary Routes of Entry

Eyes, Skin, Ingestion, Inhalation

### Carcinogenicity

May cause cancer, according to animal studies

### Concentrate

#### HMIS Hazard Ratings

Health-3, Flammability-0, Reactivity-0, Personal Protection-4

#### NFPA Hazard Ratings

Health-3, Flammability-0, Reactivity-0

### Working Solution

#### HMIS Hazard Ratings

Health-2, Flammability-0, Reactivity-0, Personal Protection-4

#### NFPA Hazard Ratings

Health-2, Flammability-0, Reactivity-0

## Section 4 First Aid Measures:

**Eyes:** Immediately flush eyes with water for at least fifteen minutes. Get immediate medical attention.

**Skin:** Flush skin with water for at least fifteen minutes. Remove contaminated clothing. Get immediate medical attention.

**Ingestion:** Do NOT induce vomiting. Give victim a glass of water. NEVER give anything by mouth to an unconscious person. Get medical attention.

**Inhalation:** Move victim to outside to fresh air. Get medical attention if symptoms persist.

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## Section 5 Fire Fighting Measures:

## X-Ray Developer Systems Cleaner

**Extinguishing Media:** Use media appropriate for adjacent fire

**Special Fire Fighting Procedures:** Wear full turnout gear and self contained breathing apparatus. Wear neoprene or rubber gloves.

**Unusual Fire and Explosion Hazards:** Dried product residue may act as an oxidizer

## Section 6 Accidental Release Measures:

Absorb spill with sawdust, sand, oil dry, or any other absorbent material. Dispose of recovered material in accordance with all federal, state, and local regulations.

## Section 7 Handling and Storage:

Do not breathe vapors. Do not get into eyes, avoid contact with body and clothing. Keep container closed.

## Section 8 Exposure Controls – Personal Protection

**Eye Protection:** Wear safety glasses with side shields or goggles.

**Ventilation:** Use only in a well ventilated area. If in an area not supported by adequate ventilation use a NIOSH approved Acid gas respirator.

**Skin Protection:** Use Neoprene or other impervious gloves and apron.

## Section 9 Physical Chemical Properties:

**Boiling Point:** >100 °C

**Appearance:** Red Solution

**Specific Gravity:** 1.12

**Solubility in Water:** Complete

**Odor:** Slight

**pH Level:** < 1.00

## Section 10 Stability and Reactivity:

**Chemical stability:** stable. **Incompatibility:** Reducing agents, bases

**Hazardous Decomposition Products:** Sulfur Dioxide. **Hazardous Polymerization:** will not occur.

## Section 11 Toxicology Information:

### Effects of Exposure

(IARC) International Agency for Research on Cancer has determined that occupational exposure to hexavalent chromium compounds and strong inorganic mists or vapors containing sulfuric acid are carcinogenic to humans. This product is not expected to produce mists or vapors when mixing instructions are followed.

## Section 12 Ecological Information:

This product is expected to produce minimal ecological impact.

## Section 13 Disposal Considerations:

Consult federal, state or local regulations for legal disposal methods.

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## Section 14 Transportation Information:

**X-Ray Developer Systems Cleaner**

**DOT Shipping Name:** Corrosive Liquid, N.O.S. **UN Number:** UN1760. **Hazard Class:** Class 8, Corrosive. **Packaging Group:** II

## Section 15 Regulatory Information:

Materials known to state of California to cause cancer: Hexavalent chromium compounds.

Materials known to state of California to cause adverse reproductive effects: None

Carcinogenicity Classification (components present at 0.1% or more):

International Agency for Research of Cancer (IARC): Group 1A, strong inorganic mists or vapors containing sulfuric acid, hexavalent chromium compounds.

American Conference of Governmental Industrial Hygienists (ACGIH): None

National Toxicology Program (NTP): None

Occupational Safety and Health Administration (OSHA): None

Chemicals subject to the report requirements of section 313 or Title III of the Superfund Amendments Reauthorization Act (SARA) of 1986 and 40CFR Part 372: Sulfuric Acid

## Section 16 Other Data:

### **NFPA HAZARD CODES (0=LEAST; 4=MOST)**

HEALTH=3

FLAMMABILITY=0

REACTIVITY=0

PERSONAL HAZARD=4

Note: This MSDS relates only to the material herein, and does not relate in combination with any other material or process. This MSDS is based on information provided by us and is believed to be accurate, although no guarantee or warranty is provided or implied by the company in this respect. Since the use of this product in the exclusive control of the user, it is the user's responsibility to determine the conditions of safe use. Such conditions must comply with all government regulations.