

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 2150, C023790, SC023790	
Product Identity: CLEANING SOLUTION	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 10/17/00	Revision: 3 Last Revised: 10/26/2006 Date Printed: 11/01/2006 8:44:07 am

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Chromium (VI) Trioxide	1333-82-0	0.8 - 1.0	Not Available 0.05 mg/m3	Not Available C 0.1 mg/m3
Sulfuric Acid	7664-93-9	97 - 99	Not Available 1 mg/m3	Not Available 1 mg/m3
Water, Deionized	7732-18-5	1.0 - 1.2	Not Available Not Available	Not Available Not Available
Sodium Dichromate Dihydrate	7789-12-0	0.5 -1.5	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: Corrosive liquid. Causes severe burns. Contains Hexavalent Chromium compound, which is a known carcinogen. Eye contact causes tissue damage and blindness. Ingestion causes corrosion of the mucosa of the mouth, throat and esophagus with stomach discomfort and pain. If ingested, dilute with large quantity of water. Do not induce vomiting. Call a physician. Wash areas of contact with plenty of water for at least 15 minutes. If possible, wipe off areas of contact with dry cloth before flushing with water, as water contact will generate heat.

Target Organs: eyes, skin, respiratory system, teeth, mucous membranes, nasal septum.

Eye Contact: Eye contact causes tissue damage and blindness.

Inhalation: May cause irritation.

Skin Contact: Skin contact causes burns, blistering, local necrosis, and membrane ulceration. Burns may be 2nd or 3rd degree.

MSDS

CLEANING SOLUTION

Ingestion: Causes corrosion of the mucosa of the mouth, throat and esophagus with stomach discomfort and pain, nausea, intense thirst, vomiting, circulatory collapse, clammy skin, weak and rapid pulse, shallow respiration, scanty urine, circulatory shock and subsequent death.

Chronic Effects/Carcinogenicity: May affect the skin, liver, kidneys and blood.

IARC - Chromium (VI) Trioxide is carcinogenic to humans.

NTP - Chromium (VI) Trioxide - Substances or groups of substances, and medical treatments that are known to be carcinogenic.

OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Sulfuric Acid. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Chromium (VI) Trioxide. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances'

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sulfuric Acid. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Chromium (VI) Trioxide. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Dichromate Dihydrate.

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: If possible, wipe off areas of contact with dry cloth before flushing contact areas with water for at least 15 minutes. Flushing immediately with water will generate a large amount of heat upon contact with sulfuric acid. Call a physician. Dispose of cloth by soaking in water. Neutralize the soaking solution with dilute sodium hydroxide solution, then flush the neutralized rinse water down the drain with excess water and treat the cloth as solid refuse.

Ingestion: Do not induce vomiting. Give large quantity of water. Call a physician immediately.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Dry chemical, foam, or carbon dioxide. Reacts with water producing heat and toxic fumes.

Fire & Explosion Hazards: Contact with most metals causes formation of flammable and explosive hydrogen gas.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not mix with bases.

Contact with water will generate heat.

Safety Storage Code: Corrosive

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

MSDS

CLEANING SOLUTION

Section 9: Physical and Chemical Properties

Appearance: clear, brown liquid
Odor: Odorless
Solubility in Water: Infinite
Specific Gravity: Approximately 1.8

pH: Not Available.
Boiling Point(°C): Approximately 300
Melting Point(°C): Approximately 5
Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatibility: Organics, chlorates, carbides, fulminates, picrates, alkalines, reducing agents, nitrates, Acetic Acid, oxidizing agents, metals, reducing agents.
Hazardous Decomposition Products: When heated to decomposition, can emit highly toxic/poisonous gases and fumes, including toxic oxides of Sulfur and Chromium.
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: 2140 mg/kg (Sulfuric Acid), details of toxic effects not reported other than lethal dose value, 80 mg/kg (Chromium Trioxide), respiratory, hair and gastrointestinal effects noted, 50 mg/kg (Sodium Dichromate) liver and kidney effects noted.

Section 12. Ecological Information

Ecotoxicological Information: Concentrated Sulfuric Acid has moderate acute and chronic toxicity to aquatic life. Insufficient data are available on the long-term effects of Sulfuric Acid to aquatic life, plants, birds, or land animals. Chromium (VI) has high acute and chronic toxicity to aquatic life.
Chemical Fate Information: Small quantities of acids will be neutralized by the alkalinity in aquatic ecosystems. Chromium (VI) is highly persistent in water with a half-life of greater than 200 days. When released into the soil, this material may leach into groundwater. This material may bioaccumulate to some extent.

Section 13. Disposal Considerations

Absorb with suitable material (vermiculite, clay, NOT paper or cardboard). Do not flush to the sewer. Containerize for disposal in a RCRA approved hazardous waste facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers: 2150-1, 2150-16, 2150-32, 2150-5PT, SC023790-1C1, SC023790-2.5D

D.O.T. Shipping Name: Sulphuric Acid Solution
D.O.T. Hazard Class: 8
U.N. / N.A. Number: UN1830
Packing Group: II
D.O.T. Label: 8



Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.
TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.
Section 311/312 Hazardous Categories: Acute, Chronic, Reactivity: Yes Fire, Pressure: No
Section 313 Toxic Chemicals: Not Applicable.

MSDS

California: None Reported.

Pennsylvania: Sulfuric Acid is listed as an Environmental Hazard on the state's Hazardous Substances List. Chromium (VI) Trioxide is listed as a Special Hazard on the state's Hazardous Substances List. Sodium Dichromate Dihydrate is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Sulfuric Acid - 1,000 pounds. Sodium Dichromate Dihydrate - 10 pounds.

WHMIS: E: Corrosive Material. D-2B: Poisonous and Infectious Material. Materials causing other toxic effects - Toxic Material.



Section 16. Other Information

NFPA Ratings:

Health: 3

Flammability: 0

Reactivity: 2

Special Notice Key:None

HMIS Ratings:

Health: 3

Flammability: 0

Reactivity: 2

Protective Equipment:C (Protective eyewear, gloves, apron)

Rev 1, 10-09-2001: Reformatted to electronic data format.

Rev 2, 08-13-2003: (Section 1) added Solutions Plus catalog number C023790.

Rev 3, 10-26-2006: Reviewed and approved for distribution.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

