



MATERIAL SAFETY DATA SHEET

I. PRODUCT INFORMATION

Trade Name: Tray Cleaner320

Chemical names, common names: Aqueous Acidic Mixture

Manufacturer's Name: HURST CHEMICAL COMPANY.

DOT CLASSIFICATION: Corrosive liquid, acidic,inorganic,n.o.s., 8, UN 3264, PGII, (sulfuric acid)

Address: 2500 San Fernando Road. Los Angeles, Ca 90065

For Product Information, call : (323) 223-4121

FOR EMERGENCY, CALL CHEMTREC, 24 HOUR: 800 424-9300

II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Number	Exposure Limits in Air	
		ACGIH (TWA)	OSHA (PEL)
Sodium dichromate	10588-01-9	0.05 mg (Cr)/m3 (TWA)	0.1mg, CrO3/m3 Ceil
Sulfuric acid	7664-93-9	1mg/m3	1mg/m3
Water	7732-18-5	None	None

Section IIA - This product contains the following chemicals subject to reporting requirements of SARA 313 and 40 CFR 372.

Listed Ingredients	CAS Number	Weight % Range
Sodium dichromate	10588-01-9	6-8%
Sulfuric acid	7664-93-9	10-12%

WARNING: This product contains a chemical (Chromium , hexavalent compounds) known to the State of California to cause cancer.

III. PHYSICAL PROPERTIES

<u>Vapor density (air = 1):</u> <1	<u>Specific Gravity:</u> 1.12	<u>Density lb/gal:</u> 9.34
<u>Solubility in water:</u> 100%	<u>VOC Composite Partial Pressure, mm Hg at 20°C:</u> <1	
<u>Evaporation rate (Bu Ac = 1):</u> <1	<u>Boiling Range °F:</u> 212	PH =1.2
<u>Appearance and odor:</u> Clear orange solution with almost no odor		
<u>Volatile Organic Content (VOC,EPA Method 24):</u> 0gm/l or 0 lb/gal		

IV. FIRE AND EXPLOSION

HAZARD RANKING	
HMIS	Health Hazard=3
HAZARD	Flammability=0
CLASS	Reactivity= 1
	Other = D
	0=Least
	4=Extreme
	1=Slight D = face shield& gloves, synthetic apron
	2=Moderate
	3 = High

Flash Point °F: None

Flammable limits in air, volume%: lower N/A upper N/A

Fire extinguishing materials: No water spray No carbon dioxide No foam
No dry chemical No other

Special firefighting procedures: If involved in a fire, water runoff may contain hexavalent chromium and should not be allowed to enter sewers or waterways. Use NIOSH - approved self-contained breathing apparatus and full protective clothing, if exposure to chromium is possible.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE -

Inhaled: Vapors and mists are extremely corrosive to the nose, throat, and mucous membranes. Bronchitis, pulmonary Edema, and chemical pneumonitis may occur. Irritation, coughing, chest pain, and difficulty in breathing may occur with brief exposure, while prolonged exposure may result in more severe irritation and tissue damage. Over exposure to hexavalent chromium may cause lung cancer and death.

Contact with skin or eyes: Vapors, liquid, and mists are extremely corrosive to the eyes & skin. It will severely damage the eyes, and severely burn the skin and causes conjunctivitis.

Absorbed through skin: Contact with breaks in the skin can cause "Chrome Sores" (skin ulcers), systemic poison; affecting kidney & liver functions, which can be fatal.

Swallowed: Can be harmful or fatal, extremely corrosive to the mouth and throat, burns the tissues, severe abdominal pain, nausea, vomiting, & collapse.

HEALTH EFFECTS OR RISKS FROM EXPOSURE -

Acute: Irritation, tissue damage, coughing, chest pain & chrome ulcers.

Chronic: Erosion of the teeth, lesions on the skin, bronchial irritation, coughing, pneumonia lung cancer, kidney, liver & gastro intestinal tract damage.

FIRST AID: EMERGENCY PROCEDURES -

Eye Contact: Promptly flush eyes with lots of running water for 30 minutes, lifting the upper and lower eyelids occasionally. Get immediate medical attention.

Skin Contact: Flush skin with lots of running water for 30 minutes. Remove contaminated clothing and shoes, get immediate medical attention.

Inhaled: remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

Swallowed: Do not induce vomiting. If conscious, give lots of water or milk. Get immediate medical attention.

COMMENTS: Sodium Dichromate in this product is a suspected cancer agent by NTP and IARC. Recent studies indicate a significant risk of lung cancer among long term employees of the chromate producing industry. On the basis of test with laboratory animals, investigative results suggest that all chromium (vi) compounds be treated as suspect carcinogens which may pose a lung cancer - risk through over exposure. Hexavalent chromium compounds in the form of chromates & dichromates have been found to be mutagenic in a bacterial & mammalian cells, including those of the Chinese hamster.

RECOMMENDATIONS TO PHYSICIAN- A 10% solution of Ascorbic acid is useful antidote for skin burns from chromic acid.

VI. REACTIVITY DATA

Stability: Stable under ordinary use & storage.

Incompatibility (materials to avoid): Alkalis, reducing agents, cyanides, sulfides, or combustible materials.

Hazardous Decomposition products (including combustion products): Sodium chromate and chromic oxide (Cr+3).

Hazardous polymerization: Will not occur.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures: Wear acid resistant slicker suit & complete protective equipment including rubber gloves, rubber boots.

Respirator equipped for acid gases may be satisfactory. Wear eye protection. For small spills, mop or wipe or use commercial absorbent. Keep out of sewers, storm drains, surface waters, and soil. For large spills, contain by diking with non-combustible absorbent material, carefully neutralize with soda ash and dispose of the remainder Hexavalent chromium product in accordance with the state & federal and local agencies by an approved contractor. Any release of the product to the environment may be subject to Federal or state reporting requirements.

(sulfuric acid) DOT/CERCLA reportable quantity 8,333 LBS.

(Sodium dichromate) DOT/CERCLA reportable quantity 14,286 LBS.

Preparing wastes for disposal: Hexavalent chromium can not be discharged directly to waterways. Waste may have to be disposed of by approved contractor. Or in an approved chemical waste landfill.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: Local mechanical exhaust ventilation capable of maintaining emissions at the point of use below the PEL.

Respiratory Protection: Wear a NIOSH - approved respirator appropriate for the vapor or mist concentrations at the point of use.

Respirator for acid gases will be sufficient.

Eye Protection: Chemical resistant goggles & full faceshield. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

Gloves: Shoulder length rubber gloves.

Other clothing and equipment: Acid resistant slicker suit with rubber apron, rubber boots with pants outside. An eye wash and safety shower should be near by and ready for use. Take hot shower after work, using plenty of soap.

OTHER HANDLING AND STORAGE REQUIREMENTS:

Keep containers tightly closed. Keep containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice.

HURST CHEMICAL COMPANY furnishes Material Safety Data Sheets based upon information from raw material suppliers. This information is provided in compliance with Federal Regulation 29CFR 1910.

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Prepared By: A. O. KORIN, Ph.D.