



HURST CHEMICAL COMPANY

12/20/2023: File reviewed, more current MSDS/SDS not available. CAS

SAFETY DATA SHEET

SECTION 1. Identification

Product Identifier: Trade Name: No. 320 Tray Cleaner
Chemical names, common names: Aqueous Acidic Mixture

Manufacturer's Name: HURST CHEMICAL COMPANY
Address: 2360 Eastman Avenue # 108, Oxnard, CA 93030
Product Information, Call: (800) 723-2004
Emergency Phone Number: CALL CHEMTREC, 24 HOUR: (800) 424-9300
DOT CLASSIFICATION: Corrosive liquid, acidic, inorganic, n.o.s., 8, UN 3264, PGII, (sulfuric acid)

Recommended Use: Cleaner for photo developing trays
Restrictions on Use: Not intended for any other use other than the recommended use of this product.
Persons handling and/or using this product should be trained regarding handling and use.

SECTION 2. Hazard(s) Identification

HMIS Health Hazard = 3
HAZARD Flammability = 0
CLASS Reactivity = 1

0 = Least	3 = High
1 = Slight	4 = Extreme
2 = Moderate	

Other: Face shield, gloves & synthetic apron
Flash Point °F: None

Signal Word: Danger

Hazard Statement(s):

Some ingredients (hexavalent Chromium) may cause cancer or are suspected of causing cancer.

Toxic if 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.

Causes severe skin burns and eye damage: 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.

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

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

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

Pictograms or hazard symbols:



Precautionary statement(s):

Wash affected areas thoroughly after handling.

Do not eat, drink or smoke when using this product.

Do not get in eyes, on skin, or on clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Keep away from heat/sparks/open flames/hot surfaces.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting/and other equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Mixture composition and information on ingredients are described in Section 3.

SECTION 3. Composition/ Information on Ingredients

<u>Chemical Names</u>	<u>CAS Number</u>	<u>Weight % Range</u>
Sodium dichromate	10588-01-9	6-8%
Sulfuric acid**	7664-93-9	10-12%
Water	7732-18-5	

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

SECTION 4. First-Aid Measures

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.

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.

SECTION 5. Fire-fighting Measures

Flash Point °F: None

Fire extinguishing materials: Do not use water spray, carbon dioxide, foam and/or dry chemical.

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.

SECTION 6. Accidental Release Measures

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 4,286 LBS.

SECTION 7: Handling and Storage

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.

SECTION 8. Exposure Controls/ Personal Protection

<u>Chemical Names</u>	<u>CAS Number</u>	<u>Exposure Limits in Air</u>	
		<u>ACGIH (TWA)</u>	<u>OSHA (PEL)</u>
Sodium dichromate	10588-01-9	0.05 mg (Cr)/m ³ (TWA)	0.1mg, Cr03/m ³ Ceil
Sulfuric acid	7664-93-9	1mg/m ³	1mg/m ³
Water	7732-18-5	None	None

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 face shield. 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 nearby and ready for use. Take hot shower after work, using plenty of soap.

SECTION 9. Physical and Chemical Properties

- Appearance (physical state, color, etc.): Clear orange solution
- Upper/lower flammability or explosive limits: Flammable limits in air, volume%: lower N/A upper N/A
- Odor: almost no odor
- Vapor pressure: Information may not be relevant or is not available.

- Odor threshold: Information may not be relevant or is not available.
- Vapor density: (air = 1): <1
- Specific Gravity: 1.12
- pH: 1.2
- Relative density: Density lb/gal: 9.34
- VOC Composite Partial Pressure, mm Hg at 20°C: <1
- Melting point/freezing point: Information may not be relevant or is not available.
- Solubility(ies): in water: 100%
- Initial boiling point and boiling range: Boiling Range °F: 212
- Volatile Organic Content (VOC, EPA Method 24): 0gm/l or 0 lb/gal
- Flash point: None
- Evaporation rate: (Bu Ac = 1): <1
- Flammability (solid, gas): Flammability=0, 0=Least
- Partition coefficient: n-octanol/water: Information may not be relevant or is not available.
- Auto-ignition temperature: Information may not be relevant or is not available.
- Decomposition temperature: Information may not be relevant or is not available.
- Viscosity: Information may not be relevant or is not available.

SECTION 10. Stability and Reactivity

Reactivity

Fire and Explosion: CLASS / Reactivity=1, 1=Slight

Chemical stability

Stable under ordinary use & storage.

Other

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.

Use NIOSH - approved self-contained breathing apparatus and full protective clothing, if exposure to chromium is possible.

SECTION 11. Toxicological Information

Routes of exposure (inhalation, ingestion, skin and eye contact are discussed in Section 4. Description of the delayed, immediate, or chronic effects from short- and long-term exposure is discussed in Section 4. Description of the symptoms is discussed in Section 4.

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

SECTION 12. Ecological Information

Keep out of sewers, drainage areas, and waterways. Consult appropriate local, county, state, and federal agencies regarding ecological issues. Follow appropriate spill response measures as outlined in Section 6.

SECTION 13 Disposal Considerations

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

SECTION 14. Transport Information

Transport this product in accordance with local, county, state, and federal regulations.

SECTION 15. Regulatory Information

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

This product contains the following chemicals subject to reporting requirements of TSCA: Sodium dichromate

This product contains the following chemicals subject to reporting requirements of Environment Canada's NDSL: None

This product contains the following chemicals subject to Environment Canada's DSL: All

SECTION 16. Other Information

Date Prepared: November 1993

Revised: May 2015

Hurst Chemical Company furnishes Safety Data Sheets based upon information from raw material suppliers. This information is provided in compliance with Federal Regulation 29CFR 1910. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.