

MATERIAL SAFETY DATA SHEET

EDC Industries, Inc.

Product: **Panopro Developer Systems Cleaner**

Revision Date: **4/5/2007**

1. CHEMICAL PRODUCT & COMPANY INFORMATION

Product Identifier: **Panopro Developer Systems Cleaner (Concentrate)**

General Use: **Major Maintenance Cleaning for Film Negative Processor Unit's Developer Section**

EDC Industries, Inc., 490 Bennett Road, Elk Grove, Illinois 60007 (U.S.A.)

Business Hours Phone: (847) 593 - 2181

FAX: (847) 593 - 6605

Chemical Emergency only, 24 Hour / 7 Day Response Phone: (800) 535-5053 & (352) 323 - 3500 INFOTRAC

2. COMPOSITION / INFORMATION ON INGREDIENTS AND COMPOUNDS

Ingredient	CAS No.	% by Wt.	Exposure Limits (ppm)		ACGIH	
			OSHA TWA	STEL	TWA	STEL
Sulfuric Acid	7664-93-9	10 - 15	1 mg/ m ³	N/Av	1 mg/ m ³	3 mg/ m ³
Sodium Dichromate	10588-01-9	10 - 15	0.05 mg/ m ³	N/Av	N/Av	N/Av
Chromium Trioxide	1333-82-0	10 - 15	0.5 mg/ m ³	N/Av	0.5 mg/ m ³	N/Av

N/Av = Not Available (c) = ceiling limit

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Corrosive liquid and vapor. Contact with liquid will cause severe chemical burns. Oxidizer. Harmful or fatal if swallowed. Chromium (VI) compounds are "Heavy Metal" and are hazardous to people, animals and environment.

POTENTIAL HEALTH EFFECTS:

INHALATION: Fumes and vapors are irritating to upper respiratory tract. Inhalation of liquid or mist will cause same effects as "Skin Contact" to respiratory system and lungs.

EYE CONTACT: Will cause severe chemical burns and may cause irreversible eye damage.

SKIN CONTACT: Prevent contact with dried product residues, liquid, mists, or spray to skin or body. Will cause severe chemical burns. Heavy metal toxic effects through skin absorption.

INGESTION: Will cause severe burns of the gastrointestinal tract. Heavy metal toxic effects. Potential aspiration hazard.

CHRONIC: May cause dermatitis, nosebleeds, teeth erosion, bronchitis, conjunctivitis. May be fatal through ingestion, inhalation, or through skin absorption. Long term exposure may cause kidney and liver damage. Known human carcinogen.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration or oxygen and get medical assistance.

EYE CONTACT: IMMEDIATE ACTION NEEDED! Do NOT allow victim to rub or keep eyes closed. Immediate extensive irrigation required; flush eye area including underneath eyelids with water for at least 15 minutes. Get medical attention rapidly.

SKIN CONTACT: IMMEDIATE ACTION NEEDED! Remove contaminated clothing and shoes. Flush skin, and wash using soap and water for minimum 15 minutes. Get medical attention rapidly. (Capture water run-off for proper treatment and disposal if possible.)

INGESTION: IMMEDIATE ACTION NEEDED! Prevent aspiration of vomit into the lungs. Induce vomiting after giving conscious victim 2 glasses water or milk. Never give anything by mouth to unconscious person. Get medical attention rapidly.

5. FIRE FIGHTING INFORMATION AND MEASURES

FLASH POINT: 644°F +

METHOD: Pensky-Martens

FLAMMABLE LIMITS: Not established

AUTOIGNITION TEMPERATURE: Not Available

HAZARDOUS COMBUSTION PRODUCTS: Product will not sustain flame. Thermal decomposition will cause off-gas release of irritating toxic fumes and particles (Sulfur Oxides and Chromium compounds).

EXTINGUISHING MEDIA RECOMMENDED: CO₂, water, dry chemical. **Do NOT use Alcohol foam or other organic media.**

CAPTURE WATER RUN-OFF AND TREAT FOR HEAVY METAL CONTAMINATION.

FIRE FIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus and full protective equipment for all indoor and outdoor fires. Decontaminate equipment after use and before handling without protective hand coverings. Capture and treat decontamination solution for heavy metals content.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL (Concentrate or Diluted working solution): Cautiously neutralize pH of the liquid with baking soda, soda ash, or other alkali. Absorb with non-combustible absorbent or disposable wiping media and place in an acid resistant fire suppressing container for proper disposal treatment at a licensed facility according to all applicable regulations.

LARGE SPILL (Concentrate or Diluted working solution): Dike spill and contain to prevent run-off. Cautiously neutralize pH of the liquid with baking soda, soda ash, or other alkali. Transfer liquid to chemically resistant containers. Dispose at a licensed facility according to all applicable regulations.

7. HANDLING AND STORAGE

HANDLING: Use in a well-ventilated area away from extreme heat. Wear protective equipment and clothing. Avoid creating mist or spray. Keep containers closed. Wipe up drips and spills immediately. If spill was not neutralized prior to clean-up, place used media for wiping spill in fire suppressing disposal container to prevent potential spontaneous combustion occurring. Wash hands and gloves thoroughly after handling containers or contact with solution or dried product.

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STORAGE: Keep in well-ventilated areas between 40°F and 110°F. Keep caps tightly closed to prevent spills or leakage.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS: General or local exhaust should be used as required to keep vapors below exposure limits.

RESPIRATORY PROTECTION: If vapor concentration exceeds allowable exposure limits or as general safety precaution, use a NIOSH/MSHA approved acid vapor cartridge or canister respirator if exposure limits are exceeded. Follow the OSHA guidelines in 29 CFR 1910.134.

SKIN PROTECTION: Use impervious gloves and an impervious gown (or impervious apron and sleeves).

EYE PROTECTION: Use chemical splash goggles or face shield. Wear face shield if possibility of splashes to face could occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range:	220°F +	Melting Point:	20°F
Vapor Pressure:	18mm Hg @ 20°C	Vapor Density (Air = 1):	0.6
Solubility in Water:	total / 100%	Specific Gravity:	1.262
Odor:	Acidic smell	% Volatile by Volume:	80% (contains no organic compounds or solvents)
Appearance:	Transparent Red/Orange liquid	pH:	Not Available (acidic solution)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (Conditions to avoid): High heat.

INCOMPATIBILITY: Strong or weak alkalis, reducing agents, most metals, and organic compounds.

HAZARDOUS DECOMPOSITION: Will release particles and fumes of Sulfur Oxides and Chromium compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Known human carcinogen. (Human Carcinogen Group I)

12. ECOLOGICAL INFORMATION

Contains "Heavy Metals" (Chromium VI compounds). Do not allow even trace amount discharge to environment. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Treat waste solution heavily with alkali or base to precipitate metal ions as particles and then filter to capture. Send metal particles and filters for recycling. OR Dispose liquid concentrate product, dried product, or diluted working solution at a licensed chemical disposal facility.

14. TRANSPORTATION INFORMATION

U.S. DOT: Corrosive Liquids, N.O.S., Mixture (Sulfuric Acid, Chromic Acid), 8, UN1760, P.G. III (larger package sizes) or ORM-D Consumer Commodity for typical pint or quart product packaging shipped by ground in North America.

IATA (Air): MUST BE MANIFESTED! Corrosive Liquids, N.O.S., Mixture (Sulfuric Acid, Chromic Acid), 8, UN1760, P.G. III; Regulations limit to a maximum 0.5 liter container size & 1 Liter total content per package for passenger aircraft transport.

15. REGULATORY INFORMATION

National Toxicology Program: Ingredients are listed as "Known Human Carcinogen".

I.A.R.C. Monographs: Human Carcinogen Group I

Ingredients listed on TSCA Inventory. Contains a chemical known to the State of California to be a Carcinogen (Proposition 65).

16. OTHER INFORMATION

NOTE: Concentrated product is strong oxidizer. Organic media used to wipe or absorb spills is subject to spontaneous combustion!

NOTE: Some locations of use may also have products containing either cyanide, ferrocyanide, or thiocyanide compounds. **DO NOT ALLOW** this product as either concentrate or diluted product (or any other acid) contact those compounds AT ANY TIME (including during disposal activities)! HIGHLY TOXIC CYANIDE GAS will be produced from those other products!

Take similar precautions about acid contact to chlorine (such as, but not limited to only "bleach"), bromine, iodine or fluorine compounds. Hazardous and Toxic gases may be created!

NFPA HAZARD RATING: Health 2(s), Fire 0, Reactivity 3

KEY: (4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Minimal)

(s) = Skin contact may significantly add to the overall exposure

NOTICE: The information herein is presented in good faith and believed to be accurate and complete as of the effective date shown above. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities with this product and its disposal comply with all federal, state, and local laws, and resident country.