



MATERIAL SAFETY DATA SHEET

I. PRODUCT INFORMATION

Trade Name: No. 230 Ink Conditioner
Chemical names, common names: Solvent Blend Complex hydrocarbon based solution
Manufacturer's Name: Hurst Chemical Company.
Address: 231 W. Pedregosa St. , Santa Barbara, CA 93101
For Product Information, call: (800) 723-2004
For Emergency, Call CHEMTREC, 24 Hour: (800) 424-9300
DOT Information: Not regulated for ground and domestic transportation 49CFR 173.150

II. HAZARDOUS INGREDIENTS

Table with 7 columns: CAS, Chemical, ACGIH TLV (ppm), OSHA PEL (ppm), OSHA IDLH (ppm), Oral Rat LD50 (mg/kg), Weight Percent Range. Rows include Xylenes, Talc, Crystalline silica (quartz), Ethyl alcohol 200 Proof, Methyl alcohol, Isopropyl alcohol, 1,2,4-Trimethylbenzene, and Cumene.

- Crystalline silica and Ethyl alcohol classified by IARC as carcinogenic to humans (Class 1), by NTP as known human carcinogens.

Remaining components are primarily aromatic type I solvent (64742-95-6) and technical white oil (8042-47-5).

Section IIA -This product contains the following chemicals listed in the subject regulations:

Table with 13 columns: CAS, Chemical, 302, 304, CERCLA, 355, 313, RCRA, CAA212, CAA602, CWA, HAP, Prop65. Rows list chemicals like Xylenes, Methyl alcohol, Isopropyl alcohol, 1,2,4-Trimethylbenzene, and Cumene with regulatory status.

All ingredients are listed under the Toxic Substance Control Act (TSCA).

III. PHYSICAL PROPERTIES

Vapor density (air = 1): > 1

Specific Gravity: 0.96

Density lb/gal: 8.00

Solubility in water: Nil

VOC Composite Partial Pressure, mm Hg at 20°C: 7.2

Evaporation rate (Bu Ac = 1): n/a

Boiling Range °F: n/a

Appearance and odor: Pale yellow gel, with slight pleasant solvent odor.

Volatile Organic Content (VOC, EPA Method 24): 496 gm/l or 4.14 lb/gal

Photochemical Reactivity Rule-102: 50%vol

IV. FIRE AND EXPLOSION

HMIS Health Hazard = 1

HAZARD Flammability = 2

CLASS Reactivity = 0

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

Other= Safety glasses, respirator, and gloves

Flash Point: 130°F PMCC

Flammable limits in air, volume%: lower 0.7% upper 10.0%

Flammable Class II

Fire extinguishing materials:

Water Spray: N/A

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Other: N/A

Special firefighting procedures: The use of SCBA is recommended for fire fighters. Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purpose.

Unusual fire and explosion hazards: This material is combustible and may be ignited by heat or flame. This material will burn but will not ignite readily.

V. HEALTH HAZARD INFORMATION**SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE**

Inhaled: Irritation of nose and throat.

Contact with skin or eyes: Irritation of eyes and skin.

Absorbed through skin: Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

Swallowed: Nausea, irritation of the digestive tract and nervous system depression.

HEALTH EFFECTS OR RISKS FROM EXPOSURE

Acute: Defatting of tissue on prolonged contact;

Chronic: Prolonged or repeated exposure to vapors or mists may cause liver damage and kidney damage.

FIRST AID: EMERGENCY PROCEDURES

Eye contact: Flush eyes immediately with water.

Skin contact: Wash promptly with soap and water.

Inhaled: Remove from exposure to fresh air, apply artificial respiration if necessary.

Swallowed: Seek medical advice. DO NOT give counter agents or induce vomiting.

COMMENTS: Crystalline silica and Ethyl alcohol have been classified as human carcinogens by IARC, but not NTP, USEPA, or OSHA. Reports have associated repeated and prolonged occupational over exposure to solvents with permanent brain and nervous system damage (sometimes referred to as solvent or painter's syndrome). Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: Prior history of chronic respiratory or skin disease.

VI. REACTIVITY DATA

Stability: Stable under ordinary conditions of use and storage.

Incompatibility (materials to avoid): Strong oxidizers and selected amines.

Hazardous decomposition products (including combustion products): Carbon dioxide, carbon monoxide.

Hazardous polymerization: Will not polymerize under ordinary conditions of use and storage.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures: Eliminate ignition sources. Contain spills for salvage or disposal. Minimize dilution water to control spill volume. Avoid run-off into sewers and ditches.

If spill in excess of EPA Reportable quantity is made into the environment, immediately notify the National Response Center (Phone NO: 800-424-8802). Reportable Quantities DOT/CERCLA:

Chemical	RQ
Amyl Acetate	5,000
Cumene	5,000
Xylenes	100

Preparing wastes for disposal: Dispose of product in accordance with local, county, state and federal regulation.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below established exposure limits, additional ventilation or exhaust systems may be required.

Respiratory Protection: In working atmosphere where TLV (or PEL) levels are exceeded, use NIOSH-approved air-purifying respirators with organic vapor cartridges.

Eye Protection: Use safety goggles where solvent splashes are expected.

Gloves: Prevent repeated or prolonged skin contact with nitrile or other solvent resistant gloves.

Other clothing and equipment: It is suggested that a source of clean water be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Work practices, hygienic practices: Practice personal cleanliness by prompt removal of liquid in contact with skin. Train all employees on special handling procedures prior to working with this product.

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. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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