



MATERIAL SAFETY DATA SHEET

I. PRODUCT INFORMATION

Trade Name:Liquid Cobalt Drier 221
Chemical names, common names: Liquid Cobalt Drier
Manufacturer's Name: HURST CHEMICAL COMPANY
Address: 2500 San Fernando Road, Los Angeles, CA 90065
DOT Classification : combustible liquid,n.o.s., combustible liquid,
NA 1993, PG III (contains naphtha, petroleum) .....173.150
For Product Information, call : (323) 223-4121
FOR EMERGENCY, CALL CHEMTREC, 24 HOUR: 800 424-9300

II. HAZARDOUS INGREDIENTS

Table with 4 columns: Chemical Names, CAS Number, Exposure Limits in Air (ACGIH (TWA)), OSHA (PEL). Rows include Mineral Spirits and Cobalt Naphthenate.

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

Table with 3 columns: Listed Ingredients, CAS Number, Weight % Range. Row: Cobalt Naphthenate, 61789-51-3, 6.00 as Cobalt.

III. PHYSICAL PROPERTIES

Vapor density (air = 1): 4.9
Solubility in water: < 1%
Evaporation rate (Bu Ac = 1): n/a
Appearance and odor: Thin purple liquid with pleasant petroleum odor
Volatile Organic Content (VOC,EPA Method 24): 424 gm/l or 3.5 lb/gal

IV. FIRE AND EXPLOSION

HAZARD RANKING
HMIS Health Hazard=1 0=Least 4=Extreme
HAZARD Flammability=2 1=Slight
CLASS Reactivity= 0 2=Moderate
Other = Nitrile Gloves & Safety Glasses 3 = High

Flash Point °F: 106
Flammable Class II
Autoignition temperature,°F: n/a
Flammable limits in air,volume%: lower:1.0 upper 6.0
Fire extinguishing materials: N/A water spray Yes carbon dioxide Yes foam
Yes dry chemical N/A other

Special firefighting procedures: Combustible material, keep container cool with water spray.
Unusual fire and explosion hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, product can ignite explosively.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE -
Inhaled: Dizziness, irritation of nose and throat. Excessive inhalation of Cobalt salts may affect the kidneys, lungs and thyroid and may cause nausea, vomiting, headache and coma.
Contact with skin or eyes: Irritation of eyes, and defatting of skin tissue.
Swallowed: May cause vomiting, diarrhea, nausea and gastrointestinal irritation.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE -**

Acute: Irritation of nose and throat. Irritation of the digestive tract. Signs of nervous system depression.

Chronic: Kidney damage

**FIRST AID: EMERGENCY PROCEDURES -**

Eye contact: Flush eyes with water.

Skin contact: Wash 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: This product has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA.

**VI. REACTIVITY DATA**

Stability: Stable under ordinary conditions of use and storage.

Incompatibility (materials to avoid): Strong oxidizing agents (i.e; nitric acid, permanganates).

Hazardous decomposition products (including combustion products): Carbon dioxide and carbon monoxide and various hydrocarbons.

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.

Preparing wastes for disposal: Consult federal, state, and local regulations controlling proper disposal of hydrocarbon based liquid materials.

**VIII. SPECIAL HANDLING INFORMATION**

Ventilation and engineering controls: Ventilation is essential for maintaining a safe level of vapor concentrations. Floor level ventilation is preferred.

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

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

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

Other clothing and equipment: Eye wash and quick drench shower facilities should be available in the work area.

Thoroughly clean shoes and wash contaminated clothing before reuse.

**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.

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.

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 assume the risk of his use thereof.

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