



	H	M	I	S
Hazard Ratings				
Minimal	0	Serious	3	
Slight	1	Severe	4	
Moderate	2			
Health				2
Flammability				1
Reactivity				0

Material Safety and Data Sheet prepared by Gus Lindquist, Consultant

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Van Son Holland Ink Corporation of America
 92 Union Street, Mineola, NY 11501

Emergency Telephone: 516-294-8811

Product Class: Printing ink additive

Trade Name: Van Son Liquid Cobalt drier

Chemtrec 24 Hour Emergency No-800-424-9300

Manufacturer's Code ID: VS2163

2. INGREDIENT COMPOSITION INFORMATION

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Cobalt Tallate	61789-52-4	40-42	0.1mg/M3	0.1mg/M3	IARC
Heavy Distillate	68476-34-6	9-10	N/A	N/A	No
Glycol Ether	111-77-3	0-1	N/A	N/A	No
Technical White Oil	8042-47-5	40-42	N/A	N/A	No

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication 29 CFR 1910.1200.....Cobalt Compound

4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

- Eye Contact**– Direct contact may cause irritation.
- Skin Contact**– Prolonged contact or repeated exposure may cause irritation.
- Inhalation**– Excess inhalation of mist or vapor may cause dizziness, nausea or irritation of nasal and respiratory passages.
- Ingestion**– May cause gastrointestinal irritation.
- Medical Conditions aggravated by normal exposure**–Persons with dermatitis should avoid skin contact.
- Target Organs**– Skin, eyes, lungs, heart, thyroid and pancreas.
- Primary Routes of entry**–Eyes, inhalation, dermal.

EMERGENCY FIRST AID PROCEDURES

- **Eye Contact**– Flush with large amounts of water for at least 20 minutes until irritation subsides. If irritation persists, contact a physician.
- **Skin Contact**– Remove contaminated clothing and wash thoroughly before reusing. Wash affected skin areas with soap and water. Seek medical attention if irritation persists.
- **Ingestion**– If swallowed, do not induce vomiting. Call a physician or poison control center.
- **Inhalation**– Remove individual to fresh air.

5. FIRE FIGHTING MEASURES

- Flash Point**.....Above 250°F Method used: closed cup
- Explosion Limits**.....LEL: 1.1– UEL: N/A
- Extinguishing Media**.....Foam, carbon dioxide, dry chemical fire apparatus. Water spray may be applied to cool exposed closed containers.
- Unusual Fire and Explosion Hazards**.....Dense smoke may be generated when burning. Carbon Monoxide and Carbon Dioxide generated as combustion products.
- Special Fire Fighting Procedures**.....Self-contained breathing apparatus recommended.

6. ACCIDENTAL RELEASE MEASURES

- Procedure when material spilled or released:** Wipe up. Dispose of wipes in approved waste containers for flammable liquids. If petroleum hydrocarbon is used, provide sufficient ventilation.
- Waste Disposal Method:** Dispose of in accordance with Federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Avoid storage above 90°F. Keep containers closed when not in use.
Other Precautions: None required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation—Use sufficient ventilation.
Protective Gloves—Impermeable gloves recommended to prevent skin irritation and absorption.
Respiratory Protection—None required.
Eye Protection—Safety glasses recommended.
Other Protection—None recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Volatile Organic Compounds: (VOCs) .90 lbs./gallon	80 Grams/liter Method 24
Boiling Range °F: > 590-725	Freezing Point °F: N/A
Vapor Density vs. Air: Heavier	Vapor Pressure: less than 0.04 psi
Density: 7.70 lbs./ gallon ASTM D1475	Specific Gravity: 0.92
Type of Odor: Oily hydrocarbon	Odor Threshold: High
Appearance: Purple liquid	pH: N/A
Evaporation Rate vs. Butyl Acetate: Slower	Coefficient of Water/oil Distribution: N/A
Percentage Volatile By Weight: 55% ASTM D2369	

10. STABILITY AND REACTIVITY

Product Stability: Stable
Conditions to Avoid: Strong oxidizing agents, acids and bases. Avoid storage above 90°F. Keep containers closed when not in use.
Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide and smoke.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

CarcinogenContains no materials that are considered carcinogenic by National Toxicology Program (NTP), or OSHA. International Agency for Research on Cancer (IARC) has classified Cobalt Compounds as Group 2B Carcinogens. Group 2B Carcinogens are possibly carcinogenic to humans.
MutagenNo
TeratogenNo
Reproductive Toxicity....No

12. ECOLOGICAL INFORMATION

This product has not been evaluated, but there is no evidence to suggest it will cause any significant environmental problem.

13. DISPOSAL CONSIDERATIONS

Material Released or spilled: This product is not regulated under the Federal Resource Conservation and Recovery Act (RCRA) as a hazardous waste. State and/or local regulations may apply. Spill should be contained, absorbed with suitable absorbent material and placed in suitable containers for disposal in a licensed facility in accordance with Local, State and Federal laws. Do not discharge into waterways or sewer systems.

14. TRANSPORT INFORMATION— DOT (HM 181) : Not required

Shipping Labels: None required

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act).....All ingredients listed in TSCA Inventory
CERCLA Superfund 40CFR 117.302.....Contains no reportable materials
SARA Title III.....40% Cobalt Compound. 0.5% Glycol Ether.
FDA..... This product is not a food additive and would not have approval for direct or indirect contact with food.
EINECS (European Economic Community).....All ingredients listed.
California Proposition 65.....None
CONEG Legislation.....Meets all current State and Heavy Metal limitations.
Canadian WHMIS.....Controlled product. Cobalt Drier, Group 2B.

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