



		H	M	I	S	
		<b>Hazard Ratings</b>				<b>Health</b> 2
Minimal	0	Serious	3			
Slight	1	Severe	4	<b>Flammability</b> 1		
Moderate	2			<b>Reactivity</b> 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 drier

**Trade Name:** Van Son Three Way Drier

**Chemtrec 24 Hour Emergency No-**800-424-9300

**Manufacturer's Code ID:** VS 2155

**2. INGREDIENT COMPOSITION INFORMATION**

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Cobalt Tallate	61789-52-4	30-40	0.1mg/M3	0.1mg/M3	IARC
Manganese Tallate	8030-70-4	40-50	5mg/M3	5mg/M3	No
Mineral Oil	8012-95-1	6-8	5mg/M3	5mg/M3	No
Mineral Spirits	8032-32-4	2-3	525mg/M3	350mg/M3	No
Technical White Oil	8042-47-5	85-95	N/A	N/A	No

**3. HAZARDS IDENTIFICATION**

OSHA Hazard Communication 29 CFR 1910.1200.....Cobalt and Manganese compounds.

**4. FIRST AID MEASURES**

**EFFECTS OF OVEREXPOSURE**

- Eye Contact-** Direct contact may cause severe irritation.
- Skin Contact-** Prolonged contact or repeated exposure may cause blistering.
- Inhalation-** Excess inhalation of mist or vapor may cause dizziness, nausea or irritation of nasal and respiratory passages.
- Ingestion-** May cause gastrointestinal irritation, heart, thyroid and pancreas damage.
- 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-** Gently flush with large amounts of water 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:N/A- 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. Thermal decomposition causes toxic fumes. Do not store near fire or flame.
- 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 recommended.**Eye Protection**—Safety glasses recommended.**Other Protection**—None recommended.**9. PHYSICAL AND CHEMICAL PROPERTIES****Volatile Organic Compounds: (VOCs)** 1.80 lbs./gallon**Boiling Range °F:** > 595-725**Vapor Density vs. Air:** Heavier**Density:** 6.90 lbs./ gallon **ASTM D1475****Type of Odor:** Mild hydrocarbon**Appearance:** Viscous white liquid**Evaporation Rate vs. Butyl Acetate:** Slower**Percentage Volatile By Weight:** 18% **ASTM D2369****205 Grams/liter Method 24****Freezing Point °F:** N/A**Vapor Pressure:** .N/A**Specific Gravity:** .85**Odor Threshold:** High**pH:** N/A**Coefficient of Water/oil Distribution:** N/A**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****Carcinogen** .....Contains 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.**Mutagen** .....No**Teratogen** .....No**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**.....Cobalt Compound up to 40%. Manganese Compound up to 50%.**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, Class 2B, Cobalt.

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