



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

Material Safety and Data Sheet prepared by W. DeBoer

**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:** Offset Color Ink Oxidizing

**Trade Name:** Tough Tex Colors

**MANUFACTURER:**

Van Son Royal Dutch Printing Ink Factories,  
Hilversum, Holland

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

**Manufacturer's Code ID:** VS378 to 393/395/399  
VS581 to 590

**2. INGREDIENT COMPOSITION INFORMATION**

<b>Ingredient</b>	<b>CAS No.</b>	<b>WT%</b>	<b>OSHA (PEL)</b>	<b>ACGIH (TLV)</b>	<b>Carcinogen</b>
Organic Pigments	See Table 2	2-10	3.5mg/M3	3.5mg/M3	No
Synthetic Resins	Various	30-50	N/A	N/A	No
Severe Acid Treated or Solvent Refined Middle Distillate	64742-13-8 64741-91-9	15-30	5mg/M3	N/A	No
Polymeric Wax Blend	N/A	5-10	N/A	N/A	No
Cobalt Drier	61789-52-4	0-1	0.1mg/M3	N/A	IARC
Manganese Drier	8030-70-4	0-1	5mg/M3	N/A	No

**3. HAZARDS IDENTIFICATION**

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

**4. FIRST AID MEASURES**

**EFFECTS OF OVEREXPOSURE**

- Eye Contact**.....Direct contact may cause irritation.
- Skin Contact**.....Prolonged contact or repeated exposure may cause minor 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.
- Primary Routes of entry**.....Eyes, inhalation, dermal.

**EMERGENCY FIRST AID PROCEDURES**

- **Eye Contact**.....Flush with large amounts of water until irritation subsides. If irritation persists, contact a physician.
- **Skin Contact:**.....Wash with soap and water. Remove contaminated clothing and wash thoroughly before reusing.
- **Ingestion**.....If swallowed, do not induce vomiting. Call a physician.
- **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. 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. 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.      **Eye Protection:** Goggles recommended.  
**Protective Gloves:** Gloves recommended.      **Other Protection:** None required.  
**Respiratory Protection:** None required.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Volatile Organic Compounds: (VOCs)</b> 1.10-1.30 lbs./gallon	<b>135-160 Grams/liter Method 24</b>
<b>Boiling Range °F:</b> > 500°	<b>Freezing Point °F:</b> N/A
<b>Vapor Density vs. Air:</b> Heavier	<b>Vapor Pressure:</b> less than 0.04psi
<b>Density:</b> 8.7-9.5 lbs./ gallon <b>ASTM D1475</b>	<b>Specific Gravity:</b> 1.05-1.12
<b>Type of Odor:</b> Oily	<b>Odor Threshold:</b> High
<b>Appearance:</b> Color viscous paste.	<b>pH:</b> N/A
<b>Evaporation Rate vs. Butyl Acetate:</b> Slower	<b>Coefficient of Water/oil Distribution:</b> N/A
<b>Percentage Volatile By Weight:</b> 15-18% <b>ASTM D2369</b>	

**10. STABILITY AND REACTIVITY**

**Product Stability:** Stable  
**Conditions to Avoid:** Strong oxidizing agents. Avoid storage above 90°F.  
 Keep containers closed when not in use.  
**Hazardous Decomposition Products:** None.  
**Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Carcinogen** .....Contains no materials that are considered carcinogenic by OSHA or the National Toxicology Program (NTP). The International Agency for Research on Cancer (IARC) lists cobalt compounds and carbon black as possible human carcinogens (Class 2B.)  
**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**.....1% Cobalt Compound and 1% Manganese Compound.  
 Barium Compounds present. Request Table 1.  
**FDA**..... This printing ink 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**.....Pigment Red 53.1. Request Table 1.  
**CONEG Legislation**.....Meets all current State and Heavy Metal limitations.  
**Canadian WHMIS**.....Non controlled product

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