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

Material Safety and Data Sheet prepared by G. Lindquist, Consultant

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**DISTRIBUTOR:**

Van Son Holland Ink Corporation of America  
92 Union Street, Mineola, NY 11501  
Emergency Telephone:516-294-8811

**MANUFACTURER:**

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

**Product Class:** Offset Ink Oxidizing  
**Trade Name:** Tough Tex LR Black

**Chemtrec 24 Hour Emergency No-**800-424-9300  
**Manufacturer's Code ID:** V13010, V13014

**2. INGREDIENT COMPOSITION INFORMATION**

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Carbon Black	1333-86-4	15-30	3.5mg/M3	3.5mg/M3	No
Organic Pigments	Various	5-10	3.5mg/M3	3.5mg/M3	No
Synthetic Resins	Various	20-40	N/A	N/A	No
Vegetable Oils	8001- various	20-40	N/A	N/A	No
Manganese Tallate	8030-70-4	1-3	5mg/M3	N/A	No
Cobalt Tallate	61789-52-4	1-3	0.1mg/M3	0.1mg/M3	IARC

**3. HAZARDS IDENTIFICATION**

OSHA Hazard Communication 29 CFR 1910.1200 .....Carbon Black, 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 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

MSDS-Tough Tex LR Black

**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 recommended.  
**Respiratory Protection:** None required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Volatile Organic Compounds: (VOCs)</b> 0.14 lbs./gallon	<b>17 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> 8.44 lbs./ gallon <b>ASTM D1475</b>	
<b>Specific Gravity:</b> 1.04	
<b>Type of Odor:</b> Oily	<b>Odor Threshold:</b> High
<b>Appearance:</b> Black 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> 1.6% <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:** 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.  
**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** .....2% Cobalt Compound and 2% Manganese Compound.  
**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.  
**Canadian WHMIS** .....Controlled product  
**California Proposition 65** .....None  
**CONEG Legislation** .....Meets all current State Heavy Metal limitations.  
**Vegetable Ink Printing Act of 1994**.....Meets the 20% minimum requirement of vegetable oil in sheet fed inks

This information is furnished without warranty, express or implied, except that it is accurate to the best of the knowledge of Van Son Holland Ink Corporation of America. The data on this sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The hazards covered are believed to be those most likely to occur in the reasonable or ordinary use of these materials. Van Son Holland Ink Corporation of America assumes no legal responsibility for use or reliance on this data.

Prepared by Gus Lindquist, Consultant

Date 2/20/2001