HOLLAND INK CORPORATION OF AMERICA
888 Vets Hwy. Hauppauge NY 11788

Van Son Hi Rub-Hard Dry Combo Drier
Material Safety Data Sheet
Date 1-1-2012

H	M	I	S

Hazard Ratings			
Minimal	0	Serious	3
Slight	1	Severe	4
Moderate	2		

Health	2
Flammability	1
Reactivity	0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Van Son Holland Ink Corporation of America
888 Vets Hwy. Hauppauge NY 11788
Emergency Telephone: 631-715-7000
Chemtrec 24 Hour Emergency No-800-424-9300
Product Class: Printing ink drier
Trade Name: Van Son Hi Rub-Hard Dry Combo Drier
Manufacturer s Code ID: V2190, V2193

2. INGREDIENT COMPOSITION INFORMATION

Ingredient	CAS No.	WT %	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Cobalt Tallate	61789-52-4	30-45	0.1mg/M3	0.1mg/M3	IARC
Manganese Tallate	8030-70-4	40-55	5mg/M3	5mg/M3	No
Mineral Oil	8012-95-1	6-8	5mg/M3	5mg/M3	No
Resin Varnish	Various	4-6	N/A	N/A	No
Polyethylene Wax Blend	Various	4-6	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: Paste-Off White
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.

Prepared by Ken Ferguson Date 1-1-2012