



HOLLAND INK CORPORATION OF
AMERICA
185 Oval Drive Islandia, NY 11749

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

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DISTRIBUTOR: Van Son Holland Ink Corporation of America 185 Oval Drive Islandia, NY 11749
 EMERGENCY TELEPHONE: 631-715-7000
 PRODUCT CLASS: Offset Ink, oxidizing
 TRADE NAME: MultiFresh Colors

MANUFACTURER: Van Son Royal Dutch Ink Factories Hilversum, Holland
 CHEMTREC 24 HOUR EMERGENCY NO-800-424-9300
 MANUFACTURER'S CODE ID: VS9530, VS9531, VS9532

Ingredient	CAS No.	W T %	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Organic Pigments	Various	15-25	3.5mg/M3	3.5mg/M3	No
Synthetic Resins	Various	20-40	N/A	N/A	No
Vegetable Oils includes:	8001-Various	8-18	N/A	N/A	No
Linseed Oil	8001-26-1				
Soya Oil	8001-22-7				
Severe Solvent Refined and Acid Treated Middle Distillate	64742-13-8 64741-91-9	20-40	N/A	N/A	No
Cobalt Drier	61789-52-4	0-1	0.1mg/M3	N/A	IARC
Manganese Drier	61788-58-7	0-1	5mg/M3	N/A	No
Polymeric Wax Blend	N/A	2-4	N/A	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

Volatile Organic Compounds: (VOCs)	2.10-2.30 lbs./gallon	240-260 Grams/liter Method 24
Boiling Range °F:	> 500-590	Freezing Point °F: N/A
Vapor Density vs. Air:	Heavier	Vapor Pressure: less than 0.04psi
Density:	8.5-8.85 lbs./ gallon ASTM D1475	Specific Gravity: 1.00-1.05
Type of Odor:	Oily	Odor Threshold: High
Appearance:	Colored viscous paste.	pH: N/A
Evaporation Rate vs. Butyl Acetate:	Slower	Coefficient of Water/oil Distribution: N/A
Percentage Volatile By Weight:	23-27% ASTM D2369	

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). International Agency for Research on Cancer (IARC) classifies cobalt compounds as 2B carcinogens (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 1% cobalt compound and 1% 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.
 California Proposition 65 None
 CONEG Legislation Meets all current State and Heavy Metal limitations.
 Canadian WHMIS Controlled product

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