

V5



Setting the highest standards for today's commercial printer.

- Effortless trouble-free printing
- Faster make-readies
- Increased productivity
- Reduced ink consumption
- Immediate post-print processing





To keep your big press running at top performance, and your customers impressed, fill the ink fountains with Vs5. Vs5 is specially formulated to impart the absolute highest color strength and gloss through its exceptional viscosity and transfer properties. It also boasts the lowest amount of water pickup with outstanding ink/water balance in all types of dampening systems. This lets Vs5 perform beautifully on every larger press, from a two-color 28 inch to the biggest multi-color press in your operation.

Vs5 is also extremely fast setting and it's highly resistant to rubbing and scuffing; is aqueous coatable inline and UV coatable with blanket coating systems. And you will love how well Vs5 performs on almost any substrate, from uncoated and coated to board and matte stock.

Keep your big presses productive and profitable with the one ink your business will thrive on. ***Vs5 from Van Son—reliability that keeps you printing.***

	Can Size	Runs On All Offset Presses	Stays Open Overnight	Work & Turnability	Laser Safe After 48-72 Hours	Works With All Plate Systems	Compatible With All Dampening Systems	Vacuum Packaging	Fast Setting	High Rub Resistance	High Gloss	UV Coatable*	Aqueous Coatable*
Vs5	5.5 lbs.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*Substitute inks are available for Reflex, Rhodamine, Purple, Violet and Warm Red for any UV Coating or Aqueous Coating applications.

*Not recommended for Silk Screen, UV Coating applications.

	Vacuum Can 2.2 lbs. (1 kg.)	Vacuum Can 5.5 lbs. (2.5 kg.)	Ink Tube 4.4 lbs. (2.0 kg.)	Ink Tube 8 lbs. (3.64 kg.)
Process Yellow	----	VS5530	VS5540	VS5590
Process Magenta	----	VS5531	VS5541	VS5591
Process Cyan	----	VS5532	VS5542	VS5592
Process Black	----	VS5533	VS5543	VS5593
VS SERIES PANTONE				
PANTONE Yellow	VS35100	VS35300		
PANTONE Warm Red	VS35101	VS35301		
PANTONE Rubine	VS35102	VS35302		
PANTONE Rhodamine	VS35103	VS35303		
PANTONE Purple	VS35104	VS35304		
PANTONE Reflex Blue	VS35105	VS35305		
PANTONE Process Blue	VS35106	VS35306		
PANTONE Green	VS35107	VS35307		
PANTONE White	VS35108	VS35308		
PANTONE Black	VS35109	VS35309		
PANTONE Violet	VS35110	VS35310		
Opaque White	VS35111*	VS35311		
PANTONE O12 Yellow	VS35112	VS35312		
PANTONE O21 Orange	VS35113	VS35313		
PANTONE O32 Red	VS35114	VS35314		
PANTONE O72 Blue	VS35115	VS35315		

* net weight 3.3 lbs. - 1.5 kgs.



And now Vs5 and the professional service and support you need—from custom mixing to technical expertise—are available exclusively from your local ink manufacturer. To order Vs5's precision balanced four-color process set, plus all PANTONE® base colors and special blends, contact your certified Vs5 ink supplier. For the name of your local supplier call **1-800-645-4182**, or visit vsinks.net.





Material Safety Data Sheet - Vs5 Series Colors

MSDS Sheet # 1-75

Date: 08-19-2003

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

Material Safety and Data Sheet prepared by Gus Lindquist

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: 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: Vs5 Series Colors

Chemtrec 24 Hour Emergency No-800-424-9300

Manufacturer's Code ID: 5530 to 5532, 55300 to 55308
55310, 55312 to 55315

2. INGREDIENT COMPOSITION INFORMATION

Ingredient	CAS No.	WT%	OSHA (PEL)	ACGIH (TLV)	Carcinogen
Organic Pigments	See Table 2	15-30	3.5mg/M3	3.5mg/M3	No
Synthetic Resins	Various	20-40	N/A	N/A	No
Vegetable Oils	8001 Various	23-35	N/A	N/A	No
Severe Hydrotreated Petroleum Middle Distillate	64742-46-7	10-15	5mg/M3	N/A	No
Polymeric Wax Blend	N/A	3.5	15mg/M3 (as dust)	N/A (as dust)	No
Cobalt Tallate	61789-52-4	0-1	0.1mg/M3	N/A	IARC

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication 29 CFR 1910.1200None

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) 1.10-1.30 lbs./gallon	90-150 Grams/liter Method 24
Boiling Range °F: > 500°	Freezing Point °F: N/A
Vapor Density vs. Air: Heavier	Vapor Pressure: less than 0.04psi
Density: 8.40-8.80 lbs./ gallon ASTM D1475	Specific Gravity: 1.00-1.03
Type of Odor: Oily	Odor Threshold: N/A
Appearance: Colored viscous paste.	pH: N/A
Evaporation Rate vs. Butyl Acetate: Slower	Coefficient of Water/oil Distribution: N/A
Percentage Volatile By Weight: 10-15% 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). The International Agency for Research on Cancer (IARC) lists cobalt compounds 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.
 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.....Controlled product
Vegetable Ink Printing Act of 1994Meets the 20% minimum requirement of vegetable oil in sheet fed inks.

This information is furnished without warranty, expressed 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.



Material Safety Data Sheet - Vs5 Series Black

MSDS Sheet # 1-74

Date: 08-19-03

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

Material Safety and Data Sheet prepared by Gus Lindquist

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Van Son Holland Ink Corporation of America
185 Oval Drive, Islandia, NY 11749

Emergency Telephone: 631-715-7000

Product Class: Offset Black Ink Oxidizing

Trade Name: Vs5 Series Process Black, Vs5 Series Pantone Black, Vs5 Black Tulip

Chemtrec 24 Hour Emergency No-800-424-9300

Manufacturer's Code ID: 5533, 55309, V55316

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	IARC
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	23-35	N/A	N/A	No
Severe Hydrotreated Petroleum Middle Distillate	64742-46-7	15-20	5mg/M3	N/A	No
Polymeric Wax Blend	N/A	3.5	15mg/M3	10mg/M3	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 1910.1200Carbon 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 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) 1.34 lbs./gallon	160 Grams/liter Method 24
Boiling Range °F: > 500°	Freezing Point °F: N/A
Vapor Density vs. Air: Heavier	Vapor Pressure: less than 0.04psi
Density: 8.67 lbs./ gallon ASTM D1475	Specific Gravity: 1.05
Type of Odor: Oily	Odor Threshold: N/A
Appearance: Black viscous paste.	pH: N/A
Evaporation Rate vs. Butyl Acetate: Slower	Coefficient of Water/oil Distribution: N/A
Percentage Volatile By Weight: 15.5% 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

CarcinogenContains 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.)
MutagenNo
TeratogenNo
Reproductive ToxicityNo

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.
California Proposition 65.....None
CONEG Legislation.....Meets all current State and Heavy Metal limitations.
Canadian WHMIS.....Controlled product
Vegetable Ink Printing Act of 1994Meets the 20% minimum requirement of vegetable oil in sheet fed inks.

This information is furnished without warranty, expressed 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.