

# Vs3



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





MATERIAL SAFETY DATA SHEET

Page: 1 of 2
Date: 02-14-2005

Holland Ink Corporation of America
185 Oval Drive, Islandia, New York 11749

Table with Hazard Ratings (H, M, I, S) and Health, Flammability, Reactivity scores.

1. Identification of the Product and the Company

Product Class : VS3810-VS3812, VS38100-VS38108, VS38110-VS38115, VS36670-VS36678, VS36680-VS36685, VS36570-VS36578, VS36580-VS36585
Trade Name : Vs3 Colors
Emergency Telephone: 631-715-7000
Chemtrec 24 Hour Emergency No: 800-424-9300

Manufacturer: Van Son of South Korea

2. Composition / Information on Ingredients

Table with columns: Substance, CAS-NR., Weight%, OSHA (PEL), ACGIH (TLV), Carcinogen. Lists ingredients like Carbon Black, Organic Pigment, Synthetic Resins, etc.

3. Hazard Identification

OSHA Hazard Communication 29 CFR 1910.1200 : Carbon Black, Manganese compound

4. First Aid Measures

Effects on 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
Target Organs : Skin, Eyes, Lungs
Primary Routes of Entry : Eyes, Inhalation, Dermal
Medical conditions aggravated by normal exposure : Persons with dermatitis should avoid skin contact

Emergency First Aid Procedures

- Eye Contact : Flush with large amount 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 Closed Cup
Explosion Limits : LEL : N/A %
UEL : N/A %
Extinguishing Media : Dry and foam agents, Carbon dioxide (CO2), water mist.
Unusual Fire and Explosion Hazards : Dense smoke may be generated when burning. Carbon Monoxide en Carbon Dioxide generated as combustion products
Special Fire Fighting Procedures : Self-contained breathing apparatus recommended

6. Accidental Release Measures

Spill Control : Wipe up or scrape up and collect the material into appropriate, labelled containers.
Waste Disposal : Do not allow material to enter drains or water courses.
Dispose in accordance with Federal, State and Local regulations

7. Handling and Storage

Handling : Keep containers closed when not in use
Storage : Avoid storage below 32°F and above 90 °F
Other Precautions : None required

8. Exposure Controls / Personal Protection

Ventilation : Use sufficient ventilation
Hand Protection : Gloves recommended
Respiratory Protection : None required
Eyes Protection : Goggles recommended
Body Protection : Wear protective clothing.
Hygiene Measures : Maintain general body hygiene.

**MATERIAL SAFETY DATA SHEET**

Trade Name : Vs3 Colors

Product Class : VS3810-VS3812, VS38100-VS38108, VS38110-VS38115,  
VS36670-VS36678, VS36680-VS36685, VS36570-VS36578, VS36580-VS36585

Page: 2 of 2

**9. Physical and Chemical Properties**

<b>Appearance</b>	: Viscous Paste	<b>pH-Value</b>	: N/A	
<b>Colour</b>	: Black	<b>Freezing Point/Range</b>	: N/A	( °F)
<b>Odor</b>	: Oily	<b>Boiling Point/Range</b>	: >500	( °F)
<b>Odor Threshold</b>	: N/A	<b>Specific Gravity</b>	: 1.00 - 1.05	(68 °F)
<b><sup>1</sup> Volatile Organic Compounds - by Calculation</b>	: 12 - 18%	<b>Autoignition Temperature</b>	: N/A	( °F)
<b>Evaporation Rate vs. Butyl Acetate</b>	: Slower	<b>Vapour Pressure</b>	: < 0.04	psi (68 °F)
<b>Vapor Density vs. Air</b>	: Heavier	<b>Solubility in Water</b>	: N/A	(68 °F)

<sup>1</sup> According to EPA Method 24A and consequently ASTM 2369 Water and other non-VOC Organic compound could also be counted as a Volatile Organic Compound. Therefore a calculation method is used in respect to European Community Directive 99/13/EC.

**10. Stability and Reactivity**

<b>Product Stability</b>	: Stable
<b>Conditions to avoid</b>	: Avoid storage below 32 °F and above 90 °F Keep containers closed when not in use
<b>Hazardous Decomposition Products</b>	: carbon monoxide and carbon dioxide
<b>Hazardous Polymerization</b>	: Will not occur

**11. Toxicological Information**

<b>Carcinogen</b>	<b>OSHA</b> : Contains no materials that are considered carcinogenic
	<b>NTP</b> : Contains no materials that are considered carcinogenic
	<b>IARC</b> : Cobalt compound and Carbon Black ( Class 2B)
<b>Mutagen</b>	: No
<b>Teratogen</b>	: No
<b>Reproductive Toxicity</b>	: No

**12. Ecological Information**

This product has not been evaluated by us, 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**

<b>DOT ( HM 181)</b>	: Not required
<b>Shipping Labels</b>	: None required

**15. Regulatory Information**

<b>TSCA (Toxic Substance Control Act)</b>	: All ingredients are listed in TSCA Inventory
<b>CERCLA Superfund 40CFR 117.302</b>	: Contains no reportable materials
<b>SARA Title III</b>	: 1,5% Cobalt compound and 1,5% Manganese Compound.
<b>Right-to-Know Act</b>	: Carbon Black, Cobalt- and Manganese Compound are reported
<b>FDA</b>	: This product is not a food additive and would not have approval for direct or indirect contact with food
<b>EINECS (European Community)</b>	: All ingredients are listed
<b>California Proposition 65</b>	: None
<b>Coneg</b>	: Meet all current State and Heavy Metal limitations
<b>Canadian WHIMS</b>	: Controlled Product

**16. Other Information**

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 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

NA=Not Applicable, NC=Not Classified, ND=Not Determined.



MATERIAL SAFETY DATA SHEET

Page: 1 of 2
Date: 02-14-2005

Holland Ink Corporation of America
185 Oval Drive, Islandia, New York 11749

Table with Hazard Ratings (H, M, I, S) and Health, Flammability, Reactivity scores.

1. Identification of the Product and the Company

Product Class : Process Black VS3813, Intense Black VS3817, VS38109, VS36679, VS36579
Trade Name : Vs3 Black

Manufacturer:
Van Son of South Korea

Emergency Telephone: 631-715-7000
Chemtrec 24 Hour Emergency No: 800-424-9300

2. Composition / Information on Ingredients

Table with columns: Substance, CAS-NR., Weight%, OSHA (PEL), ACGIH (TLV), Carcinogen. Lists ingredients like Carbon Black, Organic Pigment, etc.

3. Hazard Identification

OSHA Hazard Communication 29 CFR 1910.1200 : Carbon Black, Manganese compound

4. First Aid Measures

Effects on Overexposure

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Flash point : Above 250 °F Method Closed Cup
Explosion Limits : LEL : N/A %
UEL : N/A %
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Special Fire Fighting Procedures : Self-contained breathing apparatus recommended

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Hygiene Measures : Maintain general body hygiene.

**MATERIAL SAFETY DATA SHEET**Product Class : Process Black VS3813, Intense Black VS3817, VS38109, VS36679, VS36579 Page: 2 of 2  
Trade Name : Vs3 Black**9. Physical and Chemical Properties**

<b>Appearance</b>	: Viscous Paste	<b>pH-Value</b>	: N/A
<b>Colour</b>	: Black	<b>Freezing Point/Range</b>	: N/A (°F)
<b>Odor</b>	: Oily	<b>Boiling Point/Range</b>	: >500 (°F)
<b>Odor Threshold</b>	: N/A	<b>Specific Gravity</b>	: 1.00 - 1.05 (68 °F)
<b><sup>1</sup> Volatile Organic Compounds - by Calculation</b>	: 12 - 18%	<b>Autoignition Temperature</b>	: N/A (°F)
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<b>DOT ( HM 181)</b>	: Not required
<b>Shipping Labels</b>	: None required

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With Vs3 boasting so many positive attributes, this is one ink that will please both you and your customers—in quality and performance. Ideal for whatever type of press you operate—from the two-color 28 inch to the biggest multi-color press in your operation—just fill the fountains with Vs3 and you can look forward to effortless, trouble-free printing. Not to mention faster make-readies and speedier post-print processing. Factor in Vs3's reduced ink consumption, and you'll not only find yourself experiencing an increase in productivity, but in profitability as well. As for the end result, let's just say Vs3's intense, consistent color, brilliant gloss and sharp dot retention set the standard.

Treat your customers, yourself—and your presses—with the one ink that's setting the highest standards for today's commercial printer. **Vs3 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*
<b>Vs3</b>	2.2 lbs.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

	Vacuum Can 2.2 lbs. (1.0 kg.)	Ink Tube 4.4 lbs. (2.0 kg.)	Ink Tube 8 lb. (3.64 kg.)
Process Yellow	VS3830	VS35430	VS30030
Process Magenta	VS3831	VS35431	VS30031
Process Cyan	VS3832	VS35432	VS30032
Process Black	VS3833	VS35433	VS30033
Intense Black	VS3837	VS35437	VS30037
PANTONE Yellow	VS38100		
PANTONE Warm Red	VS38101		
PANTONE Rubine	VS38102		
PANTONE Rhodamine	VS38103		
PANTONE Purple	VS38104		
PANTONE Reflex Blue	VS38105		
PANTONE Process Blue	VS38106		
PANTONE Green	VS38107		
PANTONE White	VS38108		
PANTONE Black	VS38109		
PANTONE Violet	VS38110		
Opaque White	VS38111		
PANTONE O12 Yellow	VS38112		
PANTONE O21 Orange	VS38113		
PANTONE O32 Red	VS38114		
PANTONE O72 Blue	VS38115		



And now Vs3 and the professional service and support you need—from custom mixing to technical expertise—are available exclusively from your local ink manufacturer. To order Vs3's precision balanced four-color process set, plus all PANTONE® base colors and special blends, contact your certified Vs3 ink supplier. For the name of your local supplier call **1-800-645-4182**, or visit [Vs5inks.com](http://Vs5inks.com).

