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 Metallic Printing Inks UV Curing
Trade Name: Vs9 PMS Gold 871-876 UV Paper Series

2. INGREDIENT COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>WT %</th>
<th>OSHA (PEL)</th>
<th>ACGIH (TLV)</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexanediol diacrylate</td>
<td>13048-33-4</td>
<td>10-20%</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Ethoxylated trimethylol propane triacrylate</td>
<td>28961-43-5</td>
<td>10-20%</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Propoxylated Glyceryl Triacrylate</td>
<td>52408-84-1</td>
<td>2.5-10%</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>30-40%</td>
<td>0.1mg/m3</td>
<td>0.2mg/m3</td>
<td>No</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>2.5-10%</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication 29 CFR 1910 .... Aluminum (Dust or Fumes)

4. FIRST AID MEASURES

Eye Contact ........................................... Hold eyes open and flush for at least 15 minutes with large amounts of water.
Skin Contact ........................................ Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water. Avoid contact with UV or Sunlight.
Inhalation .......................................... Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.
Ingestion ........................................... Do not induce vomiting. Keep the person quiet. Consult physician immediately. Have victim rinse mouth thoroughly with water.

5. FIRE FIGHTING MEASURES

Extinguishing Media ..................................... Alcohol resistant foam, carbon dioxide, powder or water spray under high-pressure. Cool containers in fire area.

Unusual Fire and Explosion Hazards .................. There is a possibility of pressure buildup in containers when heated. Cool containers exposed to fire with water to prevent polymerization. Keep away from heat, flame, and oxidizing material. Will not explode upon mechanical impact.

Hazardous Combustion Products ....................... Hydrocarbons, carbon monoxide, scent, smoke and oxides of aluminum

Fire Fighting Equipment ................................. Firefighters and others exposed should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Personal: Wear appropriate protective equipment and clothing. Ventilate closed spaces before entering.

Environmental: This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Small Spills: Absorb small spills with an inert material and then place in a chemical waste container.

Large Spills: Contain Ig. spills with dikes and transfer material to appropriate container for disposal, then go to small spill.

7. HANDLING

Wear all appropriate Personal Protective Equipment (PPE). Use the product in a manner which minimizes splashes. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist, use with adequate ventilation. Wash thoroughly after handling.
any reuse must be in consideration of the data provided in the MSDS. The storage temperature should not exceed 100 degrees F. Keep containers closed when not in use. Keep in a cool, dry, well-ventilated place. Stable under normal conditions of handling and storage. Class III B Combustible Liquid

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Ventilation: | Use sufficient ventilation. |
| Protective Gloves: | Butyl Rubber Gloves recommended. |
| Respiratory Protection: | Avoid breathing vapor or mist. |
| Skin Protection: | Clothing suitable to prevent skin contact. |
| Eye Protection: | Safety Goggles recommended. |
| Hand Protection: | Use of gloves or barrier cream. |
| Engineering Controls: | Good general mechanical ventilation and local exhaust is recommended as a standard industrial hygiene procedure. |

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical State: Viscous, metallic paste
- Autoignition: 680 C (1256F) (calculated)
- Flash Point: > 132 C (269.6F) (calculated)
- Specific Gravity: 1.6 (calculated)
- Appearance: Metallic Paste
- Density: 13.36 lbs./gal (calculated)
- Boiling Range: > 315.5 C (600.8F) (calculated)
- Odor: slight, acrylate
- VOC: 0% (Calculated)

10. STABILITY AND REACTIVITY

- Stability: Stable
- Incompatibilities: Keep out of contact with strong oxidizing agents or nitrates. Uncontrolled polymerization may cause rapid evolution of heat and increase pressure that could result in violent rupture of sealed storage vessels or containers. Avoid polymerization initiators including peroxides, copper, copper alloys, carbon steel, iron, rust, and strong bases. Do not expose to extremes of heat or UV radiation.

11. TOXICOLOGICAL INFORMATION

- Trimethylolpropane Ethoxytriacylate: CAS: 28961-43-5 Dermal LD50 Rabbit: >13g/kg
- Propoxylated Glycerol Triacrylate: CAS: 52408-84-1 Oral LD50 Rat: >2000 mg/kg
- Hexanediol diacrylate (HDODA): CAS: 13048-33-4 Oral LD50 Rat: 5 g/kg; dermal LD Rabbit: 3600 microliters/kg

12. ECOLOGICAL INFORMATION

- Ecotoxicity: LC50 127 mg/L, Fish, 96.00 hours. EC50 16867mg/L, Daphnia, 48.00 hours. IC50 5524 mg/L, Algae, 72.00 hours.
- Harmful to Aquatic Organisms; may cause long term adverse effects in the aquatic environment. Intensified as having potential environmental concerns.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Not regulated as a hazardous material by the U.S. Dept. of Transportation (DOT) 49 CFR 172. Additional information: Not regulated by IATA or IMDG. General: DOT Regulated Marine Pollutant

15. REGULATORY INFORMATION

Classification: XI, N - Irritant, dangerous for the environment.
- Hazardous Ingredients: Contains Acrylates
- R-Phases-R: 36/37/38/43/52/53: Irritating to eyes, respiratory system and skin
- S-Phases-S: 26/28/36/37/39/61: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water and soap. Wear protective clothing.
- CERCLA, 40 CFR 302, Copper 7440-50-8; 5000 lb final RQ
- US EPA RCRA 40 CFR 261, None Known
- US Federal Regulations: This product is a hazardous chemical as defined by the OSHA CERCLA, 40 CFR 302, Copper 7440-50-8; 5000 lb final RQ
- State of California Safe Drinking Water and Toxic Enforcement Act of 1986
- Proposition 65 - This product contains a chemical known to cause birth defects

16. OTHER INFORMATION

The information of the MSDS is based on the present state of knowledge and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instructions. The information in this MSDS is meant as a description of the safety requirements of our product; it is not to be considered as a guarantee of the product's properties.

Prepared by Ken Ferguson

Date: March 25, 2010