1 - COMMODITY AND COMPANY IDENTIFICATION

Product Name          : INKJET INKS – PIGMENT-BASED
Manufacturer Name     : BCH Technologies LLC
Add. : 4925 West Market Street, Suite 1118-1129, Greensboro, North Carolina, 27407, U.S.A.
Tel : 1-877-776-9686
Email: info@bchtechnologies.com

2 - CHEMICAL COMPOSITION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Symbol</th>
<th>% In Weight</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid Dyes / Direct Dyes</td>
<td>NF(Non-Flammable), Xi (Irritant)</td>
<td>8.7 – 12.0</td>
<td>AcidY-23,ReactiveR-23 Direct Bl-199, Direct Bk-168</td>
</tr>
<tr>
<td>Polyalkyl Glycol</td>
<td>F (Flammable), Xi (Irritant)</td>
<td>6.3</td>
<td></td>
</tr>
<tr>
<td>Glycol Derivation</td>
<td>F (Flammable), Xi (Irritant)</td>
<td>7.0</td>
<td></td>
</tr>
<tr>
<td>Polyoxyethylene</td>
<td>Xn (NOCIVE)</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>NF(Non-Flammable), NXi (Non-Irritant), Xn (Nocive)</td>
<td>71.7 – 75.0</td>
<td></td>
</tr>
</tbody>
</table>

3 - HAZARDOUS INGREDIENTS

This product is not considered to be a hazardous substance under “OSHA’s” hazard communication standard (29 CFR 1910.1200)

4 - HMIS INFORMATION

Health - 1 (NPCA)
Flammability - 1 (NPCA)
Reactivity - 0 (NPCA)

5 - PHYSICAL DATA

Melting point - Liquid form -15 ± 5 °C (H₂O=0°C)
Boiling point - 100°C (H₂O=100°C)
Specific gravity - 1.05 ± 0.10 (H₂O=1)
State - Liquid form
Surface area - Unknown
Vapor pressure - 17 mmHg at 20°C
% volatile - 88 – 91.3 %
Solubility in water - Miscible


6 - FIRE & EXPLOSION HAZARD

Flammability classification - non-flammable
Flash point - >93°C (>93.3°C pensky martens closed cup)
Extinguishing media - carbon dioxide, drychemicals, and foam
Protection of fire-fighters - wear individual breathing apparatus
Specific hazards - in case of fire or explosion, do not breath the fumes

7 - FIRST AID MEASURES

Skin contact - Wash in soap and water and rinse with water
Eye contact - Wash immediately with water, opening eyelids.
If irritation continues, see an ophthalmologist
Ingestion - Call a doctor in case of doubt or if symptoms persist

8 - REACTIVITY DATA

Stability - Stable materials
Hazardous polymerization - Will not occur

9 - SPILL OR LEAK PROCEDURES

Spills - should be contained, absorbed and placed in suitable
containers for disposal in a RCRA licensed facility
Waste disposal method - must be disposed of as a hazardous waste, as defined by EPA's EP toxicity
specifications, at a RCRA licensed facility
Container disposal - empty containers with less than one inch of residue may be crushed and
landfilled at a licensed facility

10 - SPECIAL PROTECTION METHOD

Respiratory protection - Niosh approved vapor respirators recommended.
Ventilation - Local exhaust ventilation or containment recommended
Protective groves - Recommended
Eye protection - Safety glasses recommended

11 - TOXICOLOGICAL INFORMATION

Acute toxicity - LD50 = 6000 mg/kg (ORAL RAT)
Skin irritation - OCDE404: Non irritant
Eye irritant - OCDE405: Irritant

12 - ECOLOGICAL INFORMATION

Possible environment impact / ecotoxicity - Ames test : Negative
13 - HANDLING AND STORAGE
Handling - handling without causing dust
Storage - product is stable under normal storage condition

14 - TRANSPORTATION REQUIREMENTS
D.O.T. hazard classification (49 CFR 172) - None / Non-hazardous
D.O.T. labels required: None
Hazardous waste: Yes
I.A.T.A. Dangerous Goods Regulations: Non D.G.

15 - SPECIAL PRECAUTIONS
FDA status - this product does not have FDA approval as a food additive
Label - Xn nocive
R36/37/38
S9
S16
S25
S33

16 - STABILITY
Heat stability test - > 30 days at 70°C
Freeze thaw test - > 6 cycles at -20°C
Room temperature - > 2 years

17 - OTHER INFORMATIONS
Uses - used in desktop and wide format plotter printers
Solvent system - water

18 – HEAVY METAL CONTENT
Test Results:
<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>RoHS Limit</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead (Pb)</td>
<td>mg/kg</td>
<td>≤1000ppm</td>
<td>N.D.</td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>mg/kg</td>
<td>≤100ppm</td>
<td>N.D.</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>mg/kg</td>
<td>≤1000ppm</td>
<td>N.D.</td>
</tr>
<tr>
<td>Chromium (Cr VI)</td>
<td>mg/kg</td>
<td>≤1000ppm</td>
<td>N.D.</td>
</tr>
</tbody>
</table>

-N.D. =not detected (<MDL)
Reported by:
Company Name: BCH Technologies  Date: 7/13/2012

Authorized Person: Wen Dai  Signature: [Signature]