MATERIAL SAFETY DATA SHEET
MSDS Name: AP3155
MSDS Number: 92
Version Number: 1
MSDS Date: May 22, 2013

SECTION I - PRODUCT AND COMPANY INFORMATION
Product Name: AP3155
CAS Number MIXTURE
Hazard Rating: Health: 2 Fire: 1 Reactivity: 2 PPI: X

Company Identification:
Supply55, Inc.
P.O. Box 1522
Ann Arbor, Michigan 48106-1522
Contact: FOR REGULATORY INFORMATION CALL
Telephone: 734-668-0755

Product Class; UV Curable Ink

SECTION II - INGREDIENT AND HAZARD INFORMATION

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexanediol Diacrylate</td>
<td>13048-33-4</td>
<td>5-40</td>
</tr>
<tr>
<td>2-(2-Ethoxyethoxy)Ethyl Acrylate</td>
<td>7328-17-8</td>
<td>5-40</td>
</tr>
<tr>
<td>Trimethylolpropane Triacrylate</td>
<td>42978-66-5</td>
<td>5-40</td>
</tr>
<tr>
<td>Phosphine oxide</td>
<td>Proprietary</td>
<td>1-10</td>
</tr>
</tbody>
</table>

(*) = SARA Section 313 listed. IF CHEMICAL SYMBOL FOLLOWS * IN ( ), MATERIAL IS A COMPOUND.
For example: (*Pb) - Report as lead compound.
(**) Wiping Solution Only
(***) Black Inks Only

SECTION III - PHYSICAL DATA
Form: Clear Liquid
Boiling Range: 160.øC
Evaporation Rate: Unavailable
Vapor Density: Heavier than air
% Volatile Weight 0.09
% Volatile 0.11
Weight/Volume Measure: 8.6 Lb/Gal

SECTION IV - FIRE AND EXPLOSION HAZARD DATA
Flammability: Non-Flammable Liquid
Flash Range: >200F
EXTINGUISHING MEDIA:
(X) FOAM (X) ALCOHOL FOAM (X) CO2 (X) DRY CHEMICAL (X) WATER FOG ( ) OTHER

SPECIAL FIREFIGHTING PROCEDURES:
Firefighters should wear a positive pressure self contained breathing apparatus and remain upwind when possible. Personnel without suitable respiratory protection should leave area to avoid potential exposure to toxic gases produced by combustion.

UNUSUAL FIRE & EXPLOSION HAZARDS:
None.

SECTION V - HEALTH HAZARD DATA
PERMISSIBLE EXPOSURE LEVEL: Refer to Section II.
EFFECTS OF OVEREXPOSURE:
"Based on an IARC conclusion that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" and inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans" (Group 2B). Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety & Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1 % be considered suspect carcinogens." Potential irritation of eyes, skin and nose. Narcosis, dermatitis and nausea.

PRIMARY ROUTE(S) OF ENTRY: ( ) DERMAL (X) INHALATION (X) INGESTION
CARCINOGENICITY: See Above
FIRST AID: Eye or skin contact: Flush with water. Inhalation: Remove to fresh air. Ingestion: Do not induce vomiting. Contact a physician.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: N/A

SECTION VI - STABILITY AND REACTIVITY DATA
Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur
INCOMPATIBILITY: (MATERIALS TO AVOID): N/A
CONDITIONS TO AVOID: Exposure to excess heat.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide.
HAZARDOUS POLYMERIZATION: ( ) MAY OCCUR (X) WILL NOT OCCUR
STABILITY: ( ) UNSTABLE (X) STABLE

SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Shut off source, if possible, without endangering the operator/employee. Dike and absorb in a non-combustible solid. Place in a metal container for proper disposal.

WASTE DISPOSAL METHOD: In accordance with federal, state and local regulations.
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

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<tr>
<th></th>
<th>ACGIH</th>
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<th>OSHA</th>
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<tr>
<td></td>
<td>TLV</td>
<td>TLV-C</td>
<td>STEL</td>
<td>STEL</td>
<td>PEL</td>
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RESPIRATORY PROTECTION:
Organic vapor respirator in accordance with NIOSH and MSHA recommendations.

VENTILATION: Local exhaust required. Maintain compliance with applicable air pollution control regulations.

PROTECTIVE GLOVES: Rubber gloves recommended.

EYE PROTECTION: Splash glasses or goggles recommended.

OTHER PROTECTIVE EQUIPMENT: Safety shower and eye wash station available.

HYGENIC PRACTICES: No data available.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in closed containers away from all possible sources of heat and ignition. Ground equipment and containers while handling, transferring or processing material.

SECTION X - TRANSPORTATION

Not classified as dangerous in the meaning of European transport regulations.

By 49 CFR 172.101 published by the US department of Transportation, this product is **not** considered Hazardous.

DOT listing: Combustible liquid

Packing group: III

DOT Labels required: None

Marine pollutant: Components are not listed as marine pollutants.

OTHER PRECAUTIONS:
N/A

THE INFORMATION CONTAINED HEREIN IS CORRECT TO THE BEST OF OUR KNOWLEDGE. THE RECOMMENDATIONS AND SUGGESTIONS CONTAINED IN THIS BULLETIN ARE MADE WITHOUT GUARANTEE OR REPRESENTATION AS TO RESULTS. IF POSSIBLE, WE SUGGEST THAT YOU EVALUATE THESE RECOMMENDATIONS AND SUGGESTIONS PRIOR TO USE.