Chemical Type ------------------  Butanamide, 2,2'[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-methylphenyl)-3-oxo-
Colour Index Name ----------------- Pigment Yellow 14
CAS No. --------------------------  5468-75-7
Physical Form --------------------- Powder

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>LIMITS</th>
<th>TEST METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print-tone Shade -------</td>
<td>Max. Delta E* 2.0 of Std. - DCC TM 0001 (1)</td>
</tr>
<tr>
<td>Tint Strength (apparent)</td>
<td>± 5% of Std. - DCC TM 0001 (1)</td>
</tr>
</tbody>
</table>

**GENERAL DATA (TYPICAL VALUES):**

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>LIMITS</th>
<th>TEST METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.38 g/cc</td>
<td>DCC TM 3101B (1)</td>
</tr>
<tr>
<td>Oil Absorption</td>
<td>29</td>
<td>ASTM D-281-84 (Fasig Method)</td>
</tr>
<tr>
<td>Moisture</td>
<td>&lt;2.0%</td>
<td>ASTM D-280-81</td>
</tr>
</tbody>
</table>

(1) Test Methods available from DCC on request.

**PROPERTIES:**

**BLEED RESISTANCE**

- Ethyl Acetate --- Good
- Ethyl Alcohol --- Excellent
- Butyl Alcohol --- Excellent
- Cellosolve ------ Excellent
- D.B.P. ---------- Very Good
- Glycol ---------- Excellent
- Lard ----------- Excellent
- Linseed Oil ---- Excellent
- MEK ----------- Excellent
- Mineral Spirits - Excellent
- Water (cold) --- Excellent
- Wax (Paraffin) -- Very Good
- Xylene -------- Fair

**CHEMICAL RESISTANCE**

- Dilute Acid --------------- Excellent
- Dilute Alkali ----------- Very Good
- Detergent ---------------- Excellent
- Soap ---------------------- Excellent

**HEAT RESISTANCE**

120°C/30 minutes --Ink-- Excellent

**HEAT STABILITY (H.D.P.E.)*

Heat stable to 240°C (464°F)
5-minute dwell time, 1% pigment.

**LITHOGRAPHIC PERFORMANCE**

- Aqueous --------------- Excellent
- Alcoholic ------------- Good

**WEATHERFASTNESS - PAINT (W/O or Florida)**

- Full Strength ------ Fair
- TiO₂ Tint (1:10)------ Poor

**SPECIAL COMMENTS:**

Shade & strength determinations are made with the aid of a MacBeth Colour Computer, under the following conditions: CIELAB, 10 degree observer, D65 light source, UV & gloss included.

* At temperatures above 200°C, when incorporated in polymers, the pigment can be decomposed to form trace amounts of coloured azo dyes which can decompose further to form measurable amounts of 3,3' dichlorobenzidine, which is a suspect human carcinogen.

TECHNICAL SERVICE LAB APPROVAL: ______________________________
QUALITY CONTROL LAB APPROVAL: ______________________________
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