MATERIAL SAFETY DATA SHEET


MANUFACTURER’S NAME
Tomoegawa Paper Co., Ltd.

EMERGENCY TELEPHONE NO.
Japan 03-272-4111

ADDRESS (Number, Street, City, State, and ZIP Code)
5-15 Kyobashi, 1-Chome, Chuo-ku, Tokyo, Japan

CHEMICAL NAME AND SYNONYMS
N/A

TRADE NAME AND SYNONYMS
SF-90DV and toner used for SF-90DV

CHEMICAL FAMILY
Toner; Pigmented thermoplastic polymer.

FORMULA
Dev.; Mixtures of metal iron and toner.

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>PAINTS, PRESERVATIVES, &amp; SOLVENTS</th>
<th>%</th>
<th>TLV (Units)</th>
<th>ALLOYS AND METALLIC COATINGS</th>
<th>%</th>
<th>TLV (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIGMENTS Toner used for SF-90DV</td>
<td>4</td>
<td>BASE METAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic Pigment</td>
<td></td>
<td>Dev. (SF-90DV)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CATALYST</td>
<td>N/A</td>
<td>ALLOYS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VEHICLE Styrene-Acrylate Copolymer</td>
<td>90</td>
<td>METALLIC COATINGS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOLVENTS Carbon black</td>
<td>N/A</td>
<td>FILLER METAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PLUS COATING OR CORE FLUX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADDITIVES</td>
<td>N/A</td>
<td>OTHERS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toner</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHERS Iron oxide</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES
None

SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>BOILING POINT (°F)</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFIC GRAVITY (H2O=1) Toner; Dev.</td>
<td>1.1</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm Hg.)</td>
<td>N/A</td>
</tr>
<tr>
<td>PERCENT, VOLATILE BY VOLUME (%)</td>
<td>N/A</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>N/A</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Insoluble</td>
</tr>
<tr>
<td>APPEARANCE AND ODOUR</td>
<td>Fine, black powder, practically odorless.</td>
</tr>
</tbody>
</table>

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>FLASH POINT (Method used)</th>
<th>Higher than 350°C (by JIS-K-2265)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABLE LIMITS</td>
<td>N/A</td>
</tr>
<tr>
<td>EXTINGUISHING MEDIA</td>
<td>If product becomes involved in a fire, use CO2.</td>
</tr>
<tr>
<td>SPECIAL FIRE FIGHTING PROCEDURES</td>
<td>Water, foam or dry chemical.</td>
</tr>
<tr>
<td>UNUSUAL FIRE AND EXPLOSION HAZARDS</td>
<td>None in normal storage and use conditions.</td>
</tr>
</tbody>
</table>
SECTION V - HEALTH HAZARD DATA

Threshold Limit Value: 8mg/m³ total dust (nuisance)

Effects of Overexposure: Neither irritating, corrosive, volatile nor toxic.

Emergency and First Aid Procedures:

Normal washing with soap and water.

SECTION VI - PROACTIVITY DATA

Stability:

<table>
<thead>
<tr>
<th>Stable</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Incompatibility (Materials to avoid):

None

Hazardous Decomposition Products:

None in normal handling and use.

Hazardous Polymerization:

<table>
<thead>
<tr>
<th>May Occur</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>WILL NOT OCCUR</td>
<td>X</td>
</tr>
</tbody>
</table>

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

- Sweep up or pick up by vacuum cleaner.
- Dust filter respirator required when TLV exceeded.

Waste Disposal Method:

- This toner is insoluble in water. Don’t flush to sewer.
- Route waste toner for landfill or incineration.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type):

- Normally not required.

Ventilation:

- Local Exhaust: Normally not required.
- Special: Normally not required.
- Mechanical (General): Acceptable under normal use conditions.
- Other: Normally not required.

Protective Gloves:

- Normally not required.

Eye Protection:

- Normally not required.

Other Protective Equipment:

- Gloves and dust filter respirator recommended when handling bulk amounts.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

- Keep containers closed. Store in a cool, dry place.
- Do not store combustibles or heat sources.

Other Precautions:

- Avoid inhalation of dust.