SAFETY DATA SHEET

MANUFACTURED FOR/BY: Tokyo Printing Ink Corporation U.S.A.
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TELEPHONE NO.: (562) 424-2226
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SECTION. 1 PRODUCT IDENTIFICATION

COMMON NAME: Sheet-Fed Offset Printing ink
PRODUCT NAME: NS TKO Dense Black

SECTION. 2 HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS No.</th>
<th>WT. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated Petroleum Hydrocarbon</td>
<td>64742-46-7</td>
<td>32-35</td>
</tr>
<tr>
<td>Rosin Modified Phenolic Resin</td>
<td>68082-96-2</td>
<td>24-27</td>
</tr>
<tr>
<td>Linseed Oil Modified Alkyd Resin</td>
<td>67700-81-6</td>
<td>10-14</td>
</tr>
<tr>
<td>C.I. Pigment Blue 18</td>
<td>1324-77-2</td>
<td>5.5-6</td>
</tr>
<tr>
<td>C.I. Pigment Black 7</td>
<td>12001-26-2</td>
<td>19-20</td>
</tr>
<tr>
<td>Lanoline</td>
<td>8006-54-0</td>
<td>2</td>
</tr>
<tr>
<td>Polyethylene Wax</td>
<td>9002-88-4</td>
<td>1</td>
</tr>
<tr>
<td>Manganese Octate</td>
<td>19556-58-8</td>
<td>0.5 &gt;</td>
</tr>
<tr>
<td>Cobalt Octate</td>
<td>136-52-7</td>
<td>0.5 &gt;</td>
</tr>
</tbody>
</table>

Generally Classified as Non Toxic

SECTION. 3 PHYSICAL DATA

| APPEARANCE; Viscous Paste | SPECIFIC GRAVITY; 1.01-1.03 (25°C) |
| COLOR; Black              | BOILING POINT; NE |
| ODOR; Oily Odor           | VAPOR DENSITY; NE |
| MOLECULAR WEIGHT; NE      | VAPOR PRESSURE; NE |
| PH; NE                    | SOLUBILITY IN WATER; Insoluble |

SECTION. 4 FIRE AND EXPLOSION DATA

FLASH POINT; 150-160°C (Open Air)
FLAMMABLE LIMITS/UPPER; NE LOWER; NE
EXTINGUISH MEDIA; Water, Fog, Foam, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES; Keep out of smoke. Self contained breathing apparatus is recommended.
UNUSUAL FIRE AND EXPLOSION HAZARDS; NE
SECTION 5  HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

INHALATION: May cause respiratory irritation and dizziness.
SKIN: May cause irritation, defatting, allergic contact dermatitis and sensitization.
EYE: Will cause severe irritation.
INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

EMERGENCY FIRST AID PROCEDURE

INHALATION: Move to fresh air. Aid in breathing and get medical attention, if necessary.
SKIN: Remove contaminated clothing and wash well with soap and water.
EYE: Flush with plenty water immediately for at least 15 min. and get medical attention.
INGESTION: Drink a large quantity of water. If available, milk is better. Get medical attention.

SECTION 6  REACTIVITY DATA

STABILITY: Stable
CONDITION TO AVOID: Heat, Spark, Open flame
INCOMPATIBILITY: May react with strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: may evolve noxious fumes such as carbon oxide, nitrous oxide when involved in a fire burning.
HAZARDOUS POLYMERIZATION: Not expected.

SECTION 7  SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED AND SPILLED: Wipe out and placed in a suitable covered container for disposal.
DISPOSAL METHOD: Dispose in accordance with local, country, state and federal regulation.

SECTION 8  PROTECTION MEASURES

RESPIRATION: Use respirator, if necessary.
VENTILATION: Use general and local exhaust ventilation.
SKIN: Rubber gloves is recommended.
EYE: Safety glasses is recommended.
OTHER: Use apron, coverall and boots, if necessary.

SECTION 9  SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTION IN HANDLING AND STORING: Store in sealed container and keep away from high temperature (40°C), direct sunlight and excessive moisture.
AVERAGE SHELF LIFE: 6 months or more

NE; Not Established.