

## Sheet-fed (RB) Offset Printing Ink

**1. Product and company identification**

|  |  |
|--|--|
| <b>Product class</b>                       | Offset Printing Ink, Non-Oxidizing                                     |
| <b>Product name</b>                        | RB Color Series  |
| <b>Manufacturer for and Distributed by</b> | Tokyo Printing Ink Corporation U.S.A.                                  |
| <b>Address</b>                             | 18710 South Wilmington Avenue, Suite 101<br>Rancho Dominguez, CA 90220 |
| <b>Telephone</b>                           | (310) 604-0495   |

**2. Composition / information on ingredients**

| Ingredients           |                        | CAS Number | Content (w/w) |
|-----------------------|------------------------|------------|---------------|
| Synthetic Resins      |                        | Various    | 20-45         |
| Vegetable Oils        | Linseed Oil            | 8001-26-1  | 0-15          |
|                       | Soybean Oil            | 8001-22-7  | 0-25          |
| Polyethylene Wax      |                        | 9002-88-4  | 0-5           |
| Pigments              | C.I. Pigment Yellow 12 | 6358-85-6  | 0-30          |
|                       | C.I. Pigment Yellow 13 | 5102-83-0  | 0-30          |
|                       | C.I. Pigment Yellow 83 | 5567-15-7  | 0-30          |
|                       | C.I. Pigment Red 48:1  | 7585-41-3  | 0-30          |
|                       | C.I. Pigment Red 53:1  | 5160-02-1  | 0-30          |
|                       | C.I. Pigment Red 57:1  | 5281-04-9  | 0-30          |
|                       | C.I. Pigment Red 81:4  | 85959-61-1 | 0-30          |
|                       | C.I. Pigment Red 170   | 2786-76-7  | 0-30          |
|                       | C.I. Pigment Red 188   | 61847-48-1 | 0-30          |
|                       | C.I. Pigment Blue 15:3 | 147-14-8   | 0-30          |
|                       | C.I. Pigment Blue 61   | 1324-76-1  | 0-30          |
|                       | C.I. Pigment Green 7   | 1328-53-6  | 0-30          |
|                       | C.I. Pigment Violet 3  | 1325-82-2  | 0-30          |
|                       | C.I. Pigment Black 7   | 1333-86-4  | 0-30          |
| C.I. Pigment White 18 | 471-34-1               | 0-30       |               |

Generally Classified as Non Toxic

**3. Hazards identification**

None if used properly.

#### 4. First-aid measures

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Move to fresh air condition. Aid in breathing and get medical attention, if necessary.    |
| <b>Skin</b>       | Remove contaminated clothing and wash well with soap and water.                           |
| <b>Eye</b>        | Flush with plenty of water immediately for at least 15 minutes and get medical attention. |
| <b>Ingestion</b>  | Drink a large quantity of water. If available, milk is better. Get medical attention.     |

#### 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Flash point</b>                        | 150-160°C (Open air)                               |
| <b>Explosion limits</b>                   | <b>Upper :</b> N/A <b>Lower :</b> N/A              |
| <b>Extinguish media</b>                   | Fog, Carbon Dioxide, Foam, Dry Chemical            |
| <b>Special fire fighting procedures</b>   | Self contained breathing apparatus is recommended. |
| <b>Unusual fire and explosion hazards</b> | N/A  |

#### 6. Accidental release measures

Wipe out and placed in a suitable covered container for disposal. Dispose in accordance with local, country, state and federal regulation.

#### 7. Handling and storage

|   |  |
|---|--|
| <b>Precaution in handling and storing</b> | Store in sealed container and keep away from high temperature (under than 40°C), direct sunlight and excessive moisture. |
| <b>Average shelf life</b>                 | More than 6 months   |

#### 8. Exposure controls / personal protection

|                    |  |
|--------------------|--|
| <b>Respiration</b> | Use respirator, if necessary.                |
| <b>Ventilation</b> | Use general and local exhaust ventilation.   |
| <b>Skin</b>        | Rubber gloves are recommended.               |
| <b>Eye</b>         | Safety glasses are recommended.              |
| <b>Other</b>       | Use apron, coverall and boots, if necessary. |

#### 9. Physical and chemical properties

|                         |               |
|-------------------------|---------------|
| <b>Appearance</b>       | Viscous paste |
| <b>Color</b>            | Various       |
| <b>Odor</b>             | Oily odor     |
| <b>Molecular weight</b> | N/A           |
| <b>pH</b>               | N/A           |

|                            |                  |
|----------------------------|------------------|
| <b>Specific gravity</b>    | 0.80-1.05 (25°C) |
| <b>Boiling point</b>       | N/A              |
| <b>Vapor density</b>       | N/A              |
| <b>Vapor pressure</b>      | N/A              |
| <b>Solubility in water</b> | Insoluble        |

### 10. Stability and reactivity

|   |   |
|---|---|
| <b>Stability</b>                        | Stable  |
| <b>Condition to avoid</b>               | Heat, Spark, Open flame   |
| <b>Incompatibility</b>                  | May react with strong oxidizing agents.   |
| <b>Hazardous decomposition products</b> | May evolve noxious fumes such as carbon oxide, nitrous oxide when involved in a fire burning. |
| <b>Hazardous polymerization</b>         | Not expected.   |

### 11. Toxicological information

|                   |      |
|-------------------|------|
| <b>Carcinogen</b> | None |
| <b>Mutagen</b>    | None |

|                              |      |
|------------------------------|------|
| <b>Teratogen</b>             | None |
| <b>Reproductive toxicity</b> | None |

### 12. Ecological information

There is no evidence to cause environmental problem.

### 13. Disposal considerations

Dispose in accordance with local, country, state and federal regulation. Do not discharge into sewer systems.

### 14. Transport information

There is no hazardous information.

### 15. Regulatory information

|   |   |
|---|---|
| <b>TSCA<br/>(Toxic Substance Control Act)</b>   | All ingredients are listed.                                     |
| <b>CERCLA / Superfund, 40 CFR 117.302<br/>(Comprehensive Environment<br/>Response,<br/>Compensation, and Liability Act)</b> | Contains no reportable components.                              |
| <b>SARA Title III<br/>(Superfund Amendments and<br/>Reauthorization Act)</b>  | Cobalt compound is used as drier.                               |
| <b>FDA<br/>(Food and Drug Administration)</b>   | These inks would not be approved to contact directly with food. |
| <b>EINECS<br/>(European Economic Community)</b>   | All materials are listed.                                       |
| <b>California Proposition 65</b>  | Carbon black is included as pigment.                            |
| <b>CONEG Legislation<br/>(Coalition of Northeastern Governors)</b>  | Meets all current state and heavy metal limitations.            |

**16. Other information**

This information is based on our current level of knowledge. It is intended describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.