

## SAFETY DATA SHEET

This SDS complies with OSHA'S Hazard Communication Standard(29 CFR 1910.1200)

| <b>SECTION 1-CHEMICAL PRODUCT AND COMPANY IDENTIFICATION</b>   |  |
|--|--|
| <b>Manufactured by:</b> Suzhou Kingswood Printing Ink Co.,Ltd<br><b>Address :</b> No.989., Chunshen Rd., PanYang Industrial Park<br>XiangCheng District<br>SuZhou City, Jiangsu Province,<br>China,215152  | <b>Identity (Trade name as used on label)</b><br><b>Product Class:</b> Oxidizing Offset Inks<br><b>Trade name:</b> GLOBY/ARMSTRONG/UPAX<br>GT2980,NS6000,GT2980,LM9000 AND PANTONE<br><b>Item Nos:</b><br><b>Product Use:</b> Printing Ink |
| <b>Date Prepared:</b> May 13, 2015   | <b>Prepared By:</b> JACK CHEN  |
| <b>Information Calls:(+86)-512-65373453</b>  | <b>DOT Emergency Response: (+86)-512-65376378</b>  |
| <b>SECTION 2-HAZARDS IDENTIFICATION</b>  |  |
| <b>Hazcom 2012/GHS Classification:</b> Skin Sensitizer Category 1,Respiratory Sensitizer Category 2,Carcinogen Category 1B,Reproductive Toxicity Category 2,Specific Target Organ Toxicity Repeated Exposure Category2(brain and nervous system)   |  |
|    |  |
| <b>Label Elements:</b>   |  |
| <b>DANGER:</b><br>May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulty if inhaled. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to the brain and nervous system through prolonged or repeated exposure.  |  |
| <b>Prevention:</b><br>Obtain special instructions before use. Do not handle until all safety precautions have read and understand. Do not breathe mists or spray. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing and eye protection. In case of inadequate ventilation, wear respiratory protection. |  |
| <b>Response:</b><br>IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: call a poison center or doctor.<br>IF ON SKIN: wash with plenty of soap and water. If skin irritation or rash occurs: get medical attention. Take off contaminated clothing and wash it before reuse.<br>IF exposed or concerned: get medical advice.                 |  |
| <b>Storage/Disposal:</b><br>Store locked up. Dispose of contents and container in accordance with local, state and federal regulations. This product consists of 1.9% of ingredients of unknown acute toxicity.  |  |

### SECTION 3-COMPOSITION/INFORMATION ON INGREDIENTS

| Component                     | CAS Number  | Wt.%  |
|-------------------------------|-------------|-------|
| Non-Hazardous Pigments        | 6358-85-6   | 15-25 |
|                               | 5281-04-9   |       |
|                               | 147-14-8    |       |
| Carbon Black(black ink only)  | 1333-86-4   | 15-25 |
| Vegetable Oils                | 8001-22-7   | 1-35  |
| Hydro Carbon Solvent          | 64742-47-8  | 5-15  |
| Rosin Modified Phenolic Resin | 9003-35-1   | 25-35 |
| Manganese Carboxylate         | Proprietary | 1-2   |
| Cobalt Carboxylate            | Proprietary | 0-1   |
| Hydroquinone                  | 123-31-9    | 0-0.5 |
| Additives                     | Mixture     | 0-5   |

### SECTION 4-FIRST AID MEASURES

**EFFECTS OF OVEREXPOSURE:**

**Target Organs**—Skin, eyes, lungs.

**Primary Routes of entry**—Eyes, inhalation, dermal.

**Eye**—Direct contact may cause irritation.

**Skin**—Prolonged contact or repeated exposure may cause minor irritation.

**Inhalation**—Excess inhalation of mist or vapor may cause dizziness, nausea or irritation of nasal and respiratory passages.

**Ingestion**—May cause gastrointestinal irritation.

**Medical Conditions aggravated by normal exposure**—Persons with dermatitis should avoid skin contact.

**EMERGENCY FIRST AID PROCEDURES:**

**Eye**—Flush with large amounts of water until irritation subsides. If irritation persists, contact a physician.

**Skin**—Wash with soap and water. Remove contaminated clothing and wash thoroughly before reusing.

**Ingestion**—If swallowed, do not induce vomiting. Call a physician.

**Inhalation**—Remove individual to fresh air.

### SECTION 5-FIRE FIGHTING MEASURES

**Flash Point:** Above 250°F Method used: closed cup

**Explosion Limits:** LEL:N/A UEL:N/A

**Extinguishing Media:** Foam, carbon dioxide, dry chemical. Water spray may be Applied to cool exposed container.

**Unusual Fire and Explosion Hazards:** Dense smoke may be generated when burning. Carbon Monoxide and Carbon Dioxide generated as combustion products.

**Special Fire Fighting Procedures:** Self-contained breathing apparatus recommended.

### SECTION 6-ACCIDENTAL RELEASE MEASURES

**Procedure when material spilled or released:** Wipe up. Dispose of wipes in approved waste containers. If petroleum hydrocarbon is used, provide sufficient ventilation.

**Waste Disposal Method:** Dispose of in accordance with Federal, State and local regulations.

### SECTION 7-HANDLING AND STORAGE

**Handling:** Avoid storage above 90°F. Keep containers closed when not in use.

**Other Precautions:** None required.

### SECTION 8-EXPOSURE CONTROL AND PERSONAL PROTECTION

|                               |  |
|-------------------------------|--|
| Non-Hazardous Pigment         | None Established   |
| Carbon Black(black ink only)  | 3.5mg/m <sup>3</sup> TWA OSHA PEL<br>3mg/ m <sup>3</sup> (inhalable) TWA ACGIH TLV |
| Vegetable Oils                | 5mg/m <sup>3</sup> (respirable) 15mg/m <sup>3</sup> (total mist) TWA OSHA PEL      |
| Hydro Carbon Solvent          | None Established   |
| Rosin Modified Phenolic Resin | None Established   |
| Manganese Carboxylate         | None Established   |
| Cobalt Carboxylate            | None Established   |
| Hydroquinone                  | 1mg/m <sup>3</sup> TWA ACGIH TLV; 2mg/m <sup>3</sup> TWA OSHA PEL                  |
| Additives                     | None Established   |

**Appropriate Engineering Controls:** Good, general ventilation should be sufficient for most operations. Ten or more room air changes per hour containing a minimum of 15 percent fresh air are recommended.

**Individual Protection Measures:**

Eye Protection: Safety glasses recommended

Skin Protection: Impervious gloves recommended. Wear protective clothing if needed to avoid skin contact and contamination of personal clothing.

Respiratory Protection: If used under normal operating conditions, and with adequate ventilation, respiratory equipment is not required. Avoid excessive inhalation of ink mist.

### SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

**Self Information:** N/A

**Boiling Range:** 290-330°C

**Vapor Density vs. Air:** Heavier

**Flash Point:** 145°C

**Type of Oder:** Oily

**Appearance:** Color viscous paste

**Evaporation Rate vs. Butyl Acetate:** Slower

**Volatile (at 25°C) :** N/A

**Freezing Point °F :** N/A

**Vapor Pressure:** N/A

**Specific Gravity:** 0.95-1.1

**Odor:** A little smell

**PH:** 6-8

**Solubility in water 20°C:** N/A

### SECTION 10- STABILITY AND REACTIVETY

**Product Stability:** Stable

**Conditions to Avoid:** Strong oxidizing agents. Avoid storage above 90°F. Keep containers closed when not in use

**Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide and Smoke.

**Hazardous Polymerization:** Will not occur

## SECTION 11-TOXICOLOGICAL INFORMATION

**POTENTIAL HEALTH EFFECTS:**

**Eye:** May cause eye irritation with redness and tearing.

**Skin:** May cause irritation and drying of the skin. Repeated skin contact may cause allergic skin reaction with rash.

**Inhalation:** Mist or vapor can irritate the throat and lungs. High concentrations may cause nasal and respiratory irritation. Repeated inhalation of mists may cause allergic respiratory reaction with asthma symptoms.

**Ingestion:** If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Chronic Hazards:** May cause cancer. The risk if cancer depends on the level and duration of exposure. Prolonged overexposure to manganese compounds may affect the brain and central nervous system. Cobalt compounds may cause adverse reproductive effects.

**Carcinogen Status:** Cobalt and certain cobalt compounds have found to cause cancer in laboratory animals. Cobalt Carboxylate has not been specifically tested. Carbon Black is listed by IARC as a group 2B carcinogen (possible human carcinogen). However, the carbon black is bound in the ink matrix and no exposure to free carbon black will occur in the normal use of this product. Hydroquinone is classified by IARC in group 3(not classifiable for carcinogenicity) but hydroquinone has caused cancer in some laboratory studies. None of the other components of this product are listed as carcinogens by OSHA,IARC,NTP,ACGIH OR THE EU Directive.

**Acute Toxicity Values:** Components are not acutely toxic.

Vegetable Oils: LD50 oral rat > 2000mg/kg

Resins:LD50 oral rat > 2000mg/kg

Pigment:LD50 oral rat > 2000mg/kg

## SECTION 12-ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** None known

## SECTION 13-DISPOSAL CONSIDERATIONS

**Hazardous Waste Characterization:** None

**Recommendation:** Dispose of materials associated with cleaning up spills and/or leaks according to federal,state and local regulations for ignitable waste. Consult appropriate federal, state and local regulations to determine proper characterization of used product contaminated with other printing process product.

## SECTION 14-TRANSPORT INFORMATION

**Ground Shipping(US DOT 49 CFR):** Not Regulated.

**Air (ICAO/IATA) Shipping:** Not Regulated.

**International Maritime Organization (IMDG) Shipping:** Not Regulated.

## SECTION 15-REGULATORY INFORMATION

**SARA Title III, Sections 311 and 312 Hazard Classifications:** Acute Health, Chronic Health.

**SARA Title III, Sections 313:** This product contains the following chemicals is subject to reporting requirements of Sections

**SARA Title III, Sections 302 and 304 (Extremely Hazardous Substances):** This product is not subject to reporting requirements of Sections 302 and 304 of the Emergency Planning and Community Right-to-Know Act of 1996.

**California Proposition 65:** This product contains substances known to the state of California to cause and/or reproductive toxicity.

**TSCA Inventory:** All of this product's components are listed.

**SECTION 16-OTHER INFORMATION**

**Date Prepared: May 13,2015**

FOR INDUSTRIAL USE ONLY

USE ONLY AS DIRECTED

DO NOT TAKE INTERNALLY

This information is furnished without warrant expressed or implied, except that it is accurate to the best of the knowledge of SuZhou Kingswood Printing Ink Co.,Ltd of China. The data on this sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The hazards covered are believed to be those most likely to occur in the reasonable or ordinary use of these materials. SuZhou Kingswood Printing Ink Co.,Ltd of China assumes no legal responsibility for use or reliance on this data.