SAFETY DATA SHEET

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

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured by: Spinks Ink **Address:** 1125 Republic Drive Addison, IL 60101	**Identity (Trade name as used on label)** **Product Class:** Oxidizing Offset Inks **Trade Name: ACRYLIC PANTONE® COLORS** **Item №s.: ALL CODES** (see page 3) **Product Use:** Printing Ink
Date Prepared: April 22, 2016	**Prepared by:** Charmain Page-Walthrus
Information Calls: (800)-327-4657	**DOT Emergency Response:** (201) 478-5600

SECTION 2 – HAZARDS IDENTIFICATION

Hazcom 2012/GHS Classification: Eye Irritation Category 2A, Skin Sensitizer Category 1

Label Elements:

WARNING

May cause an allergic skin reaction. Causes serious eye irritation. Response: Storage / Disposal: Dispose of contents/container in accordance with local, state and federal regulations.

Prevention:

Wash exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye/face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage/Disposal:

Dispose of contents and container in accordance with local, state and federal regulations.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Wt. %
Resins	Mixture	35 – 75
Carbon Black (black ink only)	1333-86-4	15 – 30
Non-Hazardous Pigments	Mixture	10 – 50
Vegetable Oils	Mixture	5 – 40
Petroleum Distillate	64742-47-8	1 – 45
Additives	Mixture	1 – 10
Hydroquinone	123-31-9	0 – 0.6
Ethane Homopolymer	9002-88-4	5 – 7
Crystalline Silica (Quartz)	14808-60-7	<.001
Titanium Dioxide	13463-67-7	25 – 30
Middle Distillate	64741-44-2	11

The exact percentage is a trade secret.

SECTION 4 – FIRST AID MEASURES

Eye Contact: Immediately flush with water for at least 15 minutes; seek medical attention.	**Ingestion:** If swallowed, seek immediate medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
Skin Contact: Remove contaminated clothing; launder before re-use. Wash skin with soap and water; if irritated, seek medical attention.	**Inhalation:** Immediately remove to fresh air. Seek medical attention.
Most Important symptoms and effects, both acute and delayed: May cause an allergic skin reaction. May cause skin irritation on prolonged contact. Repeated skin contact may cause allergic skin reaction with rash.	**Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is recommended if breathing difficulties develop.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media: Foam, dry chemical; use water spray to cool exposed surfaces. When water is used, fog nozzles are preferable.

Special Hazards Arising from the Chemical: Not classified as flammable or combustible but will burn under fire conditions. Dense smoke may be generated when burning. Fire media run-off can damage the environment. Dike and collect media used to fight fire.

Special Equipment and Precautions for Fire-Fighters: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: For small incidental spills and leaks, wear protective gloves and eye protection. Wash all contaminated clothing before reuse. For larger spill requiring emergency response, follow OSHA emergency response regulations and NIOSH recommendations.

Environmental Hazards: Report spills and releases as required to appropriate authorities.

Methods and Material for Containment and Cleaning Up: Stop source of leak or spill. Isolate area of spill by diking, and/or add dry absorbent to prevent it from entering sewers, drains or waterways. Clean up and place in an appropriate container for disposal.

SECTION 7 – HANDLING/STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin or clothing. Avoid breathing mist or vapor. Wash hands thoroughly before eating, smoking or using toilet facilities. Do not eat, drink or smoke in work areas. Wash contaminated work clothing before reuse. Keep container closed when not in use. Use only with adequate ventilation. The yellow ink contains diarylide pigments which may be subject to breakdown at temperatures above 200C (392F). In the majority of printing ink systems, temperatures are lower and this thermal breakdown does not occur. It is recommended that diarylide pigments not be used under conditions where thermal breakdown can occur.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated area. Store away from oxidizers.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Component	Exposure Limit
Resins	None Established
Carbon Black (black ink only)	3.5 mg/m3 TWA OSHA PEL | 3 mg/m3 (inhalable) TWA ACGIH TLV
Non-Hazardous Pigments	None Established
Vegetable Oils	5 mg/m3 (respirable) 15 mg/m3 (total mist) TWA OSHA PEL
Petroleum Distillate	1200 mg/m3 TWA manufacturer recommended
Additives	None Established
Hydroquinone	1 mg/m3 TWA ACGIH TLV; 2 mg/m3 TWA OSHA PEL
Ethane Homopolymer	10 mg/m3 TWA ACGIH; 5 mg/m3 OSHA PEL
Crystalline Silica (Quartz)	0.025 mg/m3 TWA ACGIH; 0.1 mg/m3 OSHA PEL
Titanium Dioxide	15 mg/m3 TWA OSHA PEL
Middle Distillate	200 mg/m3 TWA ACGIH TLV

Appropriate Engineering Controls: Good, general ventilation should be sufficient for most operations.
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

APPEARANCE: Colored Paste
TYPE OF ODOR: Mild
ODOR THRESHOLD: Not determined
RELATIVE DENSITY vs. water: Heavier
VAPOR DENSITY vs. air: Heavier
VAPOR PRESSURE: Not determined
FLASH POINT: >200 SETA CC
FLAMMABLE LIMITS: Not determined
AUTO-IGNITION TEMPERATURE: Not determined

BOILING RANGE (°F): 520 - 578
pH: 6 - 8
MELTING/FREEZING POINT: Not determined
EVAPORATION RATE vs. Butyl Acetate: Slower
SOLUBILITY IN WATER: None
VISCOSITY: Not determined
PARTITION COEFFICIENT: Not determined
FLAMMABILITY (solid, gas): Not applicable
DECOMPOSITION TEMPERATURE: Not determined

COLOR	PRODUCT №	VOC, WT.%	SPECIFIC GRAVITY	LBS/GAL	VOC LBS/GAL
YELLOW	33	15.2	0.98	8.17	1.2
WARM RED	17	8.2	1.13	9.92	0.8
RUBINE RED	18	17.2	1.03	8.59	1.5
RHODAMINE RED	19	15.5	1.05	8.76	1.4
PURPLE	63	17.0	1.12	9.34	1.6
VIOLET	61	12.3	1.12	9.34	1.2
REFLEX BLUE	53	18.7	1.00	8.34	1.6
SUBSTITUTE REFLEX BLUE	502	17.3	1.02	8.51	1.2
PROCESS BLUE	58	16.2	0.97	8.09	1.3
GREEN	43	13.5	1.02	8.51	1.2
TRANSPARENT WHITE	83	16.6	0.98	8.17	1.4
MIXING WHITE (OPAQUE)	84	3.0	2.59	21.60	0.7
MIXING WHITE (SEMI OPAQUE)	88	8.7	1.05	8.76	1.4
BLACK	73	13.4	1.09	9.09	1.2
BLACK ACRYLIC	700	15.0	1.07	8.92	1.3
EZ FLOW BLACK	747	12.5	1.11	9.26	0.6

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known

Conditions to Avoid: Avoid excessive heat and open flames.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products:. The yellow ink contains diarylide pigments which may be subject to breakdown at temperatures above 200C (392F). This decomposition may produce monoazo dyes and 3,3'dichlorobenzidine.

SECTION 11 – TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

Eye: Causes eye irritation with redness and tearing.

Skin: Causes 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, diarrhea, dizziness, drowsiness and other central nervous system effects.

Chronic Hazards: May cause an allergic skin reaction. Causes serious eye irritation.

Carcinogen Status: 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.

Crystalline Silica is listed by IARC as a Group 1 carcinogen (carcinogenic to humans). However, the crystalline silica is bound in the ink matrix and exposure to free crystalline silica will not occur in the normal use of this product.

Based on rat inhalation studies, IARC concluded that there is, "sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide." IARC's overall evaluation was that "Titanium Dioxide is possibly carcinogenic to humans (Group 2B).

Acute Toxicity Values: Components are not acutely toxic.
Vegetable Oils: LD50 oral rat >5000 mg/kg
Petroleum Distillate: LD50 oral rat >5000 mg/kg
Resins: LD50 oral rat >2000 mg/kg
Pigments: LD50 oral rat >2000 mg/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 products.

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 Section 313 (Toxic Release Inventory) of the Emergency Planning and Community Right-to-Know Act of 1996: Barium Compounds 25-30% (warm red ink only)

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.

Clean Air Act (CAA) Hazardous Air Contaminants Rule (Hazardous Air Pollutant - HAP) – N/A

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

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

SECTION 16 – OTHER INFORMATION

Date Prepared: April 22, 2016

FOR INDUSTRIAL USE ONLY USE ONLY AS DIRECTED DO NOT TAKE INTERNALLY

While Spinks Ink believes the data set forth herein are accurate as of the date hereof, Spinks Ink makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.