Material Safety Data Sheet #102
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Updated: 2/19/15
Supersedes date: 2/15/12
Origination date: 5/14/93
MSDS#: 102

I. PRODUCT IDENTIFICATION

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033 Emergency phone: (323) 264-2200	**HMIS HAZARD IDENTIFICATION** Health 1 Flammability 1 Reactivity 0 Personal Protection B
Product Class: Lithographic Printing Ink	**Manufacturer's code:** Various, including 88938, 87590, I011811 – 12, A132608, 94781, P802PY, P804PY, I011918, A137554, A114546, A114547, A116146, A125075, X103239, SFP185, X102760, X102761X, X102672, X102763, C021477, et al.
Trade Name: Bengal, Concept, Heat Transfer, Omni, Silverline, Sahara, Hard Dry, Sheet Fed	

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Technical White Oils	8042-47-5	10-15	OSHA PEL TWA 5mg/m3 oil mist ACGIH TLV TWA 5mg/m3 oil mist ACGIH / STEL 10 mg/m3 oil mist	

Red colors may contain Pigment Red 53:1:
Pigment Red 53:1 5160-02-1 ≤ 28.0%
Product Bengal 62-400 Pantone Warm Red contains the highest amount at 28.0%

III. HEALTH HAZARD INFORMATION

Effects of Overexposure

Inhalation: This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. The threshold limit value (TLV) for this product as oil mist is 5 mg/M^3. Exposures below 5 mg/M^3 appear to be without significant health risk. Acute overexposure may result in irritation of the throat and lungs. Chronic exposure to high concentrations of aerosols or mists to laboratory animals has resulted in non-specific symptoms related to the nervous system, gastrointestinal tract, and lungs.

Skin Contact: Avoid skin contact. This product is non-irritating to the skin upon direct contact. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. This condition may make the skin more susceptible to other irritants, sensitizers, and disease. Pre-existing skin conditions may make the skin more susceptible and facilitate uptake by this route.

Eye Contact: Avoid eye contact. This product may be slightly irritating to the eyes upon direct contact. This product has a low vapor pressure and is not expected to present a hazard to the eyes at ambient conditions. Exposure to high concentrations of vapors may be irritating to the eyes.

Ingestion: Do not ingest. Ingestion of small quantities is usually nonfatal unless aspiration occurs. Severe oral intoxication will lead to intense burning of the throat and may result in drowsiness, dullness, numbness, and headache followed by dizziness, weakness, and nausea. Loss of consciousness and convulsions followed by death may result. See Notes to Physician section below.

IV.FIRST AID PROCEDURES

Emergency & First Aid Procedures
Eyes: Immediately flush eyes with large amounts of water and continue flushing for 15 minutes until irritation subsides. If irritation persists, seek medical attention.
Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention.
Inhalation: This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. If mist or exposure is generated when the material is heated or handled, remove victim from exposure. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen if it is available. If victim is unconscious, remove to fresh air and seek medical attention.
Ingestion: Do not induce vomiting. Seek immediate medical attention.
Notes to Physician: Aspiration may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage, and may be fatal. Signs of lung involvement include increased respiration rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking, and gagging are often noted at the time if aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.

V. FIRE AND EXPLOSION DATA

Flash Point °F: 260 °F PMCC		**Auto-ignition Temperature °F:** 428 °F ASTM E-659
Flammable Limits in Air	**Lower Limit:** 1.1	**Upper Limit:** 6.0
Extinguishing Media: Use water fog, foam, CO_2, or dry chemical extinguishing media. **Special Fire Fighting Procedures:** Water may be ineffective, but can be used to cool containers exposed to heat or flame. **Unusual Fire & Explosion Hazard:** Dense smoke may be generated while burning, carbon dioxide, carbon monoxide, and other oxides may be generated as products of combustion		

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Scrape up with trowel or scoop and place in a suitable container. Clean up with a suitable solvent.

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. Consumption of food and beverages should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, and smoking.
Other Precautions: For industrial use only. Do not ingest. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Requirements: If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specific exposure or flammable limits.
Personal Protective Equipment
Respirator: Respiratory protection is not required under conditions of normal use. If vapor or mist in generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.
Skin: No skin protection is required for single, short duration exposures. For prolonged exposures, use impervious synthetic rubber clothing (boots, gloves, etc.) over parts of the body subject to exposure.
Eye: Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face or splash-proof safety goggles.

IX. PHYSICAL DATA

Boiling Range °F: 515 – 586 °F	**Vapor Density (Air = 1):** 7.76
Relative Density (H_2O = 1): 1.0-1.20	**Vapor Pressure (mm Hg @ 68°F):** 0.1
Material Density Lbs./Gal: 8.3-10	**Solubility in Water:** Insoluble
% Volatile Organic Compounds (VOC) by weight: 10-15	**% Solids by Weight:** 85-90
VOC Lbs/Gal: 1.50 Max **Grams/Liter:** 180 max	**Appearance/Odor:** Colored oily paste

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	**Conditions to avoid:** Excessive heat and contact with strong oxidizers
Hazardous Polymerization: Will not occur	**Materials to avoid:** Strong oxidizing agents.
Hazardous Decomposition Products: CO_2, CO, and other oxides may be generated as products of combustion.	

XI. TOXILOGICAL INFORMATION

CARCINOGEN: This product has not been identified as a carcinogen by OSHA or the National Toxicology program (NTP), or the International Agency for Research Cancer (IARC).

Mutagen: No Data
Teratogen: No Data
Reproductive Toxicity: No Data

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time.

XIII. DISPOSAL INFORMATION

Waste Disposal Method: If recycling as ink is not possible, material may be incinerated or land filled at a licensed facility in accordance with local, state, and federal regulations.

XIV. TRANSPORT INFORMATION

Flammability Classification:
OSHA: Class III B

DOT (Ground): Not Regulated

IMO/IMDG (Sea): Not Regulated

IATA/ ICAO (Air): Not Regulated

Not classified as dangerous in the meaning of transport regulations.

XV. REGULATORY INFORMATION

SARA Title III Section 313:
This material contains a chemical subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act.

Chemical	313 Category Code	%
Barium Compound	N040	28.0 max

TSCA Section 8(b) Inventory Status:
All component(s) of this product are either exempt or listed on the TSCA Inventory.

U.S. State Regulations

California Proposition 65:
This product may contain chemical(s) known by the State of California to cause cancer and/or reproductive harm.

Chemical	CAS Number	%	Type of Toxicity
Pigment Red 53:1	5610-02-1	24.0 max.	Cancer

XVI OTHER INFORMATION

The information herein is presented in good faith, based on the data available to us and is believed to be correct as of the date hereof. However, Gans Ink and Supply Co., Inc. makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.
Gans Ink and Supply Co., Inc. assume no responsibility for any damages of any nature directly or indirectly resulting from the use of or reliance upon the information contained herein.
Users must make their own determination as to the suitability of the product for their purpose prior to use.

B	Safety Glasses Gloves