

Material Safety Data Sheet # 196
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

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 MSDS #: 196

I. PRODUCT IDENTIFICATION

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033 Emergency phone: (323) 264-2200	<p align="center">HMIS HAZARD IDENTIFICATION</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Flammability</td> <td>2</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> <tr> <td>Personal Protection</td> <td>C</td> </tr> </table>	Health	1	Flammability	2	Reactivity	1	Personal Protection	C
Health	1								
Flammability	2								
Reactivity	1								
Personal Protection	C								
Product Class: Screen Printing Ink	Manufacturer's code: Various, X100728, X010054, X102065, X103181								
Trade Name: Plastisol Textile Inks, SecurFabric Security Inks									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Bisphenol A-Epichlorohydrin polymer	25068-38-6	7.9	OSHA /PEL TWA ACGIH /TWA	Not Established Not Established
Zinc Orthosilicate-manganese	7439-97-5	0.45	OSHA Ceiling limit AS Mn ACGIH / TWA 0.2 mg/m3 AS Mn	5 mg/M ³
Hvy. Hydrotreated Petroleum Naphtha	64742-88-7	2.0	OSHA Z1/ PEL OSHA Z1A /TWA ACGIH / TWA	2,900 mg/m3 500 ppm 525 mg/m3 100 ppm 100 ppm
Alkenes, C12-24, chloro	68527-02-6	23.9	OSHA /PEL TWA ACGIH /TWA	Not Established Not Established

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Avoid inhalation. Vapors may be slightly irritating. May cause drowsiness or dizziness. 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 may be slightly 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.. Exposure to high concentrations of vapors may be irritating to the eyes.
Ingestion: Do not ingest. May cause lung damage if swallowed. 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 <i>Notes to Physician</i> 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: 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. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. 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 of aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.

V. FIRE AND EXPLOSION DATA

Flash Point °F: 123.1 °F (Tagliabue Closed Cup)	Auto-ignition Temperature °F: 450 °F
Flammable Limits in Air (% Volume)	Lower Limit: 0.6 Upper Limit: 6.0
Extinguishing Media: Use water spray or fog, foam, CO ₂ , or dry chemical extinguishing media.	
Special Fire Fighting Procedures: Fire fighters wear full face self contained breathing apparatus (SCBA) in positive pressure mode, to prevent inhalation of airborne contaminants. Water may be used to cool containers exposed to heat or flame. Vapors are heavier than air, may travel across the ground and reach remote ignition sources causing a flashback fire danger.	
Unusual Fire & Explosion Hazard: Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides of nitrogen may be generated as products of combustion.	

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Ventilate area. Wear appropriate personal protection during cleanup, such as impervious gloves, and apron. Soak up with inert material such as vermiculite, sand, silica gel, sawdust and place in a suitable container. Clean up with a suitable solvent. Keep away from all ignition sources. Do Not allow to enter drains, sewers or waterways.

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool dry, well-ventilated area. Keep containers tightly closed. Keep away from all sources of ignition, open flame, sparks and heat. Body and skin protection such as gloves, apron, long sleeved clothing and safety glasses are recommended when handling product Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Always wash hands and face with soap and water before eating, drinking, and smoking.
Other Precautions: For industrial use only. Do not ingest. Consumption of food and beverages should be avoided in work areas where hydrocarbons are present.

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 is 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: Use impervious chemical resistant gloves and apron over parts of the body subject to exposure. Safety

showers are recommended.

Eye: If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety glasses or goggles. Eyewash stations are recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: 300 – 415 °F	Vapor Density (Air = 1): > 5
Relative Density (H₂O = 1): 1.76 - 2.55	Vapor Pressure (mm Hg @ 68F): 0.5
Material Density Lbs./Gal: 14.66 - 21.24	Solubility in Water: Insoluble
% Volatile Organic Compounds (VOC) by Weight: 1.6 – 3.1	% Solids by Weight: 96.9 - 98.4
VOC: lbs/gal: < 0.66 g/L: 79.1	Appearance/Odor: White colored paste/ slight odor

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	Conditions to avoid: Excessive heat and open flame. To avoid thermal decomposition, do not overheat.
Hazardous Polymerization: Will not occur.	Materials to avoid: Contact with strong oxidizers.
Hazardous Decomposition Products: CO ₂ , CO, and other oxides may be generated as products of combustion. Prolonged heat may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F) and within 5 minutes at 232 °C (450°F).	

XI. TOXICOLOGICAL 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

Acute Toxicity:

Bisphenol A- Epichlorohydrin polymer 28068-38-6

Oral LD50 Rat 11,400 mg/kg

Dermal LD50 Rabbit > 6,000 mg/kg; skin irritant

Hvy. Hydrotreated Petroleum Naphtha 64742-88-7

Oral LD50 Rat, > 2,000 mg/kg

Dermal LD50 Rat, > 2,000 mg/kg

Inhalation: Low toxicity: LC50 Rat greater than near saturated vapor concentration / 1 hours, Rat

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time. As with all materials and products, do not allow to enter waterways, drains or sewers.

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: Combustible Liquid

OSHA: Class II

DOT (Ground): Flammable Liquid

XV. REGULATORY INFORMATION

SARA Title III Section 313:

This material contains chemical(s) subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act.

<u>Chemical</u>	<u>CAS#</u>	<u>%</u>
Barium Comp.	N040	6.0
Manganese Comp.	7439-96-5	1.0

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 does not intentionally contain any chemicals known by the state of California to cause cancer and/or reproductive harm. Moreover, Gans Ink and Supply Co., Inc. does not routinely analyze its products for impurities which may be such chemicals.

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. assumes 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. In accordance with good practices of personal cleanliness and hygiene, handle with due care and avoid unnecessary contact with this product.

C

Safety Glasses
Gloves
Apron

