

Material Safety Data Sheet # 196.1
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

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 MSDS: 196.1

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: Textiles Ink	Manufacturer's code: Various, X102064 – 65, etc.								
Trade Name: Plastisol ThermoChromic Inks, SecurFabric Security Inks									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Technical White Oils	8042-47-5	7 – 15	OSHA PEL /TWA 5 mg/m3 ACGIH TLV 5 mg/m3 ACGIH / STEL 10 mg/ m3	No Limit No Limit as oil mist
Petroleum Naphtha	64742-88-7	2.0	OSHA Z1A TWA 525mg/m3 OSHA Z1 / PEL 2,900 mg/m3 ACGIH/ TWA	100 ppm 500 ppm 100 ppm
Naphthalene	91-20-3	0.025	OSHA PEL /TWA OSHA STEL ACGIH TLV/ TWA	10 ppm 15 ppm 10 ppm
Bisphenol A- Epichlorhydrin polymer	25068-38-6	7.9	OSHA PEL	Not Established
Alkenes, C12-24, chloro	68527-02-6	23.7	OSHA PEL	Not Established

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Inhalation of mist or vapor may cause irritation of respiratory tract. Acute overexposure may result in irritation of the throat and lungs.
Skin Contact: Avoid skin contact. Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formations (burns). Since irritation may not occur immediately, contact can go unnoticed. 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. Moderate irritant. Can cause burning sensation, tearing, swelling, and redness. 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 be harmful if swallowed. May irritate the mouth, throat, and gastrointestinal tract. 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: 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 of aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.

V. FIRE AND EXPLOSION DATA

Flash Point °F: 275 °F	Auto-ignition Temperature °F: 559 °F	
Flammable Limits in Air (% Volume)	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: Fire fighters wear self contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Water may be ineffective, but can be used to cool containers exposed to heat or flame. Fire fighters wear		
Unusual Fire & Explosion Hazard: May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides of nitrogen and other hazardous materials may be generated as products of combustion.		

VI. ACCIDENTAL RELEASE

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

Handling and Storage: Store in containers in a cool, well-ventilated area. Keep away from all sources of ignition, heat and open flame. 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: Protective gloves are recommended. Long sleeved clothing and aprons are recommended. For prolonged exposures, use impervious synthetic rubber clothing (boots, gloves, etc.) over parts of the body subject to exposure

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

IX. PHYSICAL AND CHEMICAL DATA

Boiling Range °F: 300 –588 °F	Vapor Density (Air = 1): > 5.0
Relative Density (H₂O = 1): 1.31 – 1.57	Vapor Pressure (mm Hg @ 68°F): < 0.5
Material Density Lbs./Gal: 10.91 – 13.07	Solubility in Water: Insoluble
% Volatile Organic Compounds (VOC) by Weight: 4.0 Max.	% Solids by Weight: 96.0
VOC: lbs/gal: < 0.53 g/L: 62.8	Appearance/Odor: Colored paste

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	Conditions to avoid: Excessive heat, open flame sparks and sources of ignition.
Hazardous Polymerization: Will not occur.	Materials to avoid: Keep away from oxidizing agents and strong acids
Hazardous Decomposition Products: CO ₂ , CO, and other oxides of nitrogen, hydrogen chloride (HCl) as well as other hazardous materials and smoke may be generated as products of combustion.	

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

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which, in their pure form, have the following toxicity characteristics:

Bisphenol A- Epichlorohydrin polymer 25068-38-6 skin irritant

White Mineral Oil 8042-47-5 Oral LD50, >5 g/kg Rat, dermal LD50; 2 g/ kg, Inhalation LC50; 5 mg/L Rat

Petroleum Naphtha 64742-88-7 Oral LD50; > 2000 mg/kg Rat, dermal LD50; > 2,000 mg/kg Rat, Inhalation LC50; greater than near -saturated vapor concentration. / 1hours, Rat

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time.

Environmental toxicity has not been established for this mixture as a whole.

As with all products and chemicals, DO Not allow to enter waterways, sewers or drains.

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 III B
DOT (ground):	Not Regulated
IMO/ IMDG (sea):	Not Regulated
ICAO/ IATA (air):	Not Regulated

XV. REGULATORY INFORMATION

SARA Title III Section 313 Toxic Chemical List :

This material Does Not contain chemicals subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act.

SARA Section 302 - Extremely Hazardous Substances (EHS):

This product does not contain any components regulated under Section 302 (40 CFR 355) as EHS.

TSCA Section 8(b) Inventory Status:

All component(s) of this product are either exempt or listed on the TSCA Inventory.

Canadian Regulations

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Pollutant Release Inventory (NPRI) : Not applicable

WHMIS (Workplace Hazardous Materials Information System)

Ingredient Disclosure List: None of the components of this product are listed.

Clean Air Act - Hazardous Air Pollutants (HAP):

This product contains the following chemical(s) listed as HAP under the U.S. Clean Air Act Section 112 (40 CFR 61)

<u>Chemical</u>	<u>CAS #</u>	<u>%</u>
Naphthalene	91-20-3	0.025

U.S. State Regulations

California Proposition 65:

This product contains a chemical(s) known by the state of California to cause cancer and/or reproductive harm.

<u>Chemical</u>	<u>CAS #</u>	<u>%</u>
Naphthalene	91-20-3	0.025

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

