

Material Safety Data Sheet # 143
For Printing Inks and related Materials

Preparation Date: 11/11/91
 Supersedes: 6/25/08
 Updated: 8/12/2013
 MSDS #: 143

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>2</td> </tr> <tr> <td>Flammability</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> <tr> <td>Personal Protection</td> <td>B</td> </tr> </table>	Health	2	Flammability	1	Reactivity	1	Personal Protection	B
Health	2								
Flammability	1								
Reactivity	1								
Personal Protection	B								
Product Class: Lithographic Printing Ink	Manufacturer's code: Various, A131634- 5, A132607-8, A116366-9, G012311-14, A139740								
Trade Name: Dri-Sub, Heat Transfer, Hi-VOC Pyroscript Inks & blends, et al.									

II. HAZARDOUS INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Technical White Oils	8042-47-5	2 - 5	OSHA PEL ACGIH TLV	No Limit No Limit
Fats and Glyceridic oils, Menhaden polyimd, oxidized	proprietary	0.9 – 1.8	OSHA/ PEL ACGIH TLV/ TWA	5mg/m3 oil mist Not Established
Tripropylene Glycol Monomethyl ether	25498-49-1	0.4 – 0.8	OSHA/ PEL ACGIH/ TLV	Not Established Not Established
Cyclohexanone , oxime	100-64-1	1 – 2	OSHA/ PEL ACGIH/ TLV	Not Established Not Established
Petroleum distillates	68131-77-1	3.0	OSHA/ PEL ACGIH/ TLV	Not Established Not Established
Petroleum. distillates	64741-86-2	3 – 8	OSHA/ PEL ACGIH/ TLV	Not Established Not Established
Aluminum,(2,ethylhexanoato-kappa.O) oxo-homopolymer	56237-74-2	0.4 – 0.8	OSHA/PEL ACGIH/ TLV	Not Established Not Established
Petro.Dist.	64742-46-7	10 - 20.0	OSHA /PEL /TWA 8 hr ACGIH TLV/TWA ACGIH TLV/ STEL 8hr	5 mg/m3 5mg/m3 5 mg/m3
Benzene, C14-30 alkyl deriv	68855-24-3	3.4	OSHA /PEL ACGIH/ TLV	Not Established Not Established
Hydroquinone	123-31-9	< 1.0	OSHA /PEL ACGIH/ TLV	Not Established Not Established

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Avoid inhalation. Can cause upper respiratory tract irritation, headaches, dizziness, drowsiness and nausea. Can cause central nervous system (CNS) depression.
Skin Contact: Avoid skin contact. This product is 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 irritating to the eyes upon direct contact. Exposure to high concentrations of vapors may be irritating to the eyes.
Ingestion: Do not ingest. 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: 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: > 200 °F	Auto-ignition Temperature °F: > 420 °F
Flammable Limits in Air	Lower Limit: 1.1 Upper Limit: No Data
Extinguishing Media: Use water fog, foam, CO2, or dry chemical extinguishing media.	
Special Fire Fighting Procedures: Fire fighters, use self contained breathing apparatus. Do not enter any enclosed or confined fire space without proper protection Water may 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: Absorb spill with an inert material such as sand, vermiculite clay, etc Scrape up with trowel or scoop and place in a suitable container. Dispose of in accordance to state, local and Federal regulations. Do Not allow product to enter waterways, sewers or drains.

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. Wear protective gloves when handling. Keep away from all sources of ignition, open flame and heat. 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: For prolonged exposures, use impervious synthetic rubber clothing (boots, gloves, etc.) over parts of the body subject to exposure. Safety stations 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 DATA

Boiling Range °F: 212 – 710 °F	Vapor Density (Air = 1): > 1
Relative Density (H₂O = 1): 1.04 - 1.16	Vapor Pressure (mm Hg @ 68°F): 0.1
Material Density Lbs./Gal: 8.66 - 9.66	Solubility in Water: Insoluble
% Volatiles by Weight: 15-30	% Solids by Weight: 70 - 85
VOC Lbs/Gal: 2.90 max. gL: 348	Appearance/Odor: Colored oily paste

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable	Conditions to avoid: Excessive heat, open flame and sources of ignition.
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.	

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 Data:	
Technical White Oil -	CAS#: 8042-47- 5
Dermal LD50=	2g/kg
LC50=	No information available
Oral LD50=	5g/kg (Rat)
Distillates, sweetened middle – CAS#: 64741-86-2	
LD50 Oral >	5,000 mg/kg (Rat)
LD50 Dermal >	2,000 mg/kg (Rabbit)
Hydrotreated Middle Dist. CAS# 64742-46-7	
LD50 Oral Rat >	15,000 mg/kg
LD50 Dermal Rabbit >	3,160 mg/kg
Benzene, C14-30-alkyl derivs. CAS# 68855-24-3	
LD50 Oral Rat >	15,800 mg/kg
LD50 Rabbit >	7,940 mg/kg

XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time. As with all chemicals 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:
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 does not contain chemicals subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act

SARA (Superfund Amendments and Reauthorization Act of 1986) Title III:

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.

Clean Air Act - Hazardous Air Pollutants (HAP):

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

<u>Chemical</u>	<u>CAS#</u>	
Formaldehyde	50-00-0	Trace amounts

U.S. State Regulations

California Proposition 65: This product contains a chemical(s) known to the state of California to cause cancer or reproductive harm.

<u>Chemical</u>	<u>CAS#</u>	<u>%</u>
Formaldehyde	50-00-0	Trace amounts

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

