

**I. PRODUCT IDENTIFICATION**

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033  Emergency phone: (323) 264-2200	<b>HMIS HAZARD IDENTIFICATION</b>								
	<table border="1"> <tr><td>Health</td><td>1</td></tr> <tr><td>Flammability</td><td>1</td></tr> <tr><td>Reactivity</td><td>0</td></tr> <tr><td>Personal Protection</td><td>B</td></tr> </table>	Health	1	Flammability	1	Reactivity	0	Personal Protection	B
Health	1								
Flammability	1								
Reactivity	0								
Personal Protection	B								
<b>Product Class:</b> Lithographic Ink Vehicle	<b>Manufacturer's code:</b> S-1921								
<b>Trade Name:</b> Grafo Drier									

**II. COMPOSITION / INGREDIENTS**

Material	CAS #	%	Exposure Limits	Units
Manganese Compounds		9.0 %		
Zinc Compounds		3.0%		

**III. HEALTH HAZARD INFORMATION**

<b>Effects of Overexposure</b>
<b>Inhalation:</b> Vapors expected to be slightly irritating. Excessive inhalation of vapors may cause drowsiness or dizziness. Respiratory irritation signs may include a temporary burning sensation of the nose and throat, coughing, and or difficulty breathing. Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light – headedness, headache, nausea and loss of coordination.
<b>Skin Contact:</b> Avoid skin contact. This product may be 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. Wash hands thoroughly after handling.
<b>Eye Contact:</b> 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.
<b>Ingestion:</b> Do not ingest. No hazards expected in normal industrial use.

**IV. FIRST AID PROCEDURES**

<b>Emergency &amp; First Aid Procedures</b>
<b>Eyes:</b> Immediately flush eyes with large amounts of water and continue flushing for 15 minutes until irritation subsides. Seek medical attention. If wearing contact lenses, if easy to do remove contact lenses.
<b>Skin:</b> Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention.
<b>Inhalation:</b> This material 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.
<b>Ingestion:</b> Do not induce vomiting. Seek immediate medical attention.
<b>Notes to Physician:</b> 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

<b>Flash Point °F:</b> Not Applicable		<b>Auto-ignition Temperature °F:</b> N/A
<b>Flammable Limits in Air</b>	<b>Lower Limit:</b> No Data	<b>Upper Limit:</b> No Data
<b>Extinguishing Media:</b> Use water spray ,dry chemical		
<b>Special Fire Fighting Procedures:</b> Water may be ineffective, but can be used to cool containers exposed to heat or flame. As in any fire, wear self-contained breathing apparatus pressure- demand MSHA / NIOSH (approved or equivalent) and full protective gear.		
<b>Unusual Fire &amp; Explosion Hazard:</b> No known unusual hazards in a fire / explosion situation. Powdered material may form explosive dust- air mixtures. 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:** Wear appropriate personal equipment. Eliminate all sources of ignition, heat, sparks, flame, electricity, impact and friction. Absorb spills with inert material. Large spills: Contain spilled material. Keep unnecessary and unprotected personnel from entering. Scrape up with trowel or scoop and place in a clearly labeled suitable container for chemical waste. Absorb with an inert material.

#### VII. HANDLING AND STORAGE

**Handling and Storage:** Store in containers in a cool, dry well-ventilated area. Keep containers closed. Use only in a well ventilated area. Do not get into eyes, on skin or clothing. Keep from contact with oxidizing materials. Minimize dust generation and accumulation. In the United states refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries.

**Other Precautions:** For industrial use only. Do not ingest. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. 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.

#### VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation Requirements:** Use only with adequate ventilation. 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:** If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. All respirators must be NIOSH / MSHA certified. Do not use compressed oxygen in hydrocarbon atmospheres.

**Skin:** Wear protective gloves to minimize skin contamination. For prolonged exposures, use impervious synthetic rubber clothing (boots, gloves, etc.) over parts of the body subject to exposure. It is good industrial hygiene practice to minimize skin contact. Safety showers recommended.

**Eye:** Where contact with this material is likely, eye protection is recommended. Wear safety glasses with side shield or safety goggles. Eye bath / wash facilities recommended.

#### IX. PHYSICAL AND CHEMICAL DATA

<b>Boiling Range °F:</b> N/A	<b>Vapor Density (Air = 1):</b> < 1
<b>Relative Density (H<sub>2</sub>O = 1):</b> 1.0 (estimated)	<b>Vapor Pressure (mm Hg @ 70°F):</b> N/A
<b>Material Density Lbs./Gal:</b> 8.345	<b>Solubility in Water:</b> Insoluble
<b>% Volatile Organic Compound (VOC) by Weight:</b> 0	
<b>VOC: lbs/gal: 0 g/L: 0</b>	<b>Appearance/Odor:</b> Brownish Gray Liquid/ Mild Odor

**X. STABILITY AND REACTIVITY INFORMATION**

<b>Stability (Thermal, Light, etc.):</b> Thermal stability not tested. Low stability hazard expected at normal operating temperatures.	<b>Conditions to avoid:</b> Excessive heat, flames sources of ignition.
<b>Hazardous Polymerization:</b> Will not occur.	<b>Materials to avoid:</b> Contact with strong oxidizing agents.
<b>Hazardous Decomposition Products:</b> CO <sub>2</sub> , CO, fumes, smoke and other oxides may be generated as products of combustion.	

**XI. TOXICOLOGICAL INFORMATION**

<b>CARCINOGEN:</b> 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)	
<b>Mutagen:</b>	No Data
<b>Teratogen:</b>	No Data
<b>Reproductive Toxicity:</b>	No Data

**XII. ECOLOGICAL INFORMATION**

This product has not been evaluated at this time.
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**XIII. DISPOSAL INFORMATION**

<b>Waste Disposal Method:</b> 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.
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**XIV. TRANSPORT INFORMATION**

<b>Flammability Classification:</b> Not Regulated
<b>OSHA:</b> Class III B
<b>DOT:</b> Not Regulated
<b>DOT Shipping Name:</b> Not Regulated
<b>IMDG:</b> Not Regulated
<b>TDG:</b> Not Regulated

**XV. REGULATORY INFORMATION**

<p><b>SARA Title III Section 313:</b></p> <p>This material <b>DOES NOT</b> contain chemicals subject to the reporting requirements of the Superfund Amendments and Reauthorization ACT (SARA).</p> <p>WHMIS (Canada) Status: uncontrolled</p> <p>This product <b>DOES NOT</b> contain Hazardous Materials as defined by the <b>OSHA Hazard Communication Standard 29 CFR 1910.1200</b></p> <p><b>TSCA Section 8(b) Inventory Status:</b> All component(s) of this product are either exempt or listed on the TSCA Inventory.</p> <p>All components are listed / or otherwise in compliance with the following inventories:</p>
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Canadian Domestic Substance List (**DSL**) and (**CEPA**) Canadian Environmental Protection Act  
European Inventory of Existing Chemical Substances (**EINECS**)  
Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme (**AICS/ NICNAS**)

Korean Toxic Substances Control Act of Existing Chemicals (**ECL**)  
Japanese Existing & New Chemicals Substance List (**ENCS**)  
Philippines Inventory of Chemical Substances (**PICCS**)

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**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.