

Material Safety Data Sheet # 118
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Date of preparation: 3/4/93
 Updated: 2/8/2010
 Supersedes: 8/13/08
 MSDS #: 118

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>1</td></tr> <tr><td>Reactivity</td><td>1</td></tr> <tr><td>Personal Protection</td><td>B</td></tr> </table> | Health | 1 | Flammability | 1 | Reactivity | 1 | Personal Protection | B |
| Health | 1 | | | | | | | | |
| Flammability | 1 | | | | | | | | |
| Reactivity | 1 | | | | | | | | |
| Personal Protection | B | | | | | | | | |
| Product Class: Lithographic Printing Ink | Manufacturer's code: Various, 011L, A106273, F014861, A129457, P428 OP, A140722 | | | | | | | | |
| Trade Name: Opaque white and Blends [Except 00-38, 27994, (see MSDS Number 118.1)] | | | | | | | | | |

II. HAZARDOUS INGREDIENTS

| Material | CAS # | % | Exposure Limits | Units |
|---|------------|---|--|-------|
| Hydrotreated light Paraffinic (petroleum) distillates | 64742-55-8 | 5 | OSHA TWA/PEL 5.0 mg/m ³ ,mist | |
| | | | OSHA/ STEL | NE |
| | | | ACGIH TLV/TWA 5.0 mg/m ³ , mist | |
| | | | ACGIH / STEL 10.0 mg/m ³ , mist | |
| Diethylene glycol monohexyl ether | 112-59-4 | | ACGIH TLV /TWA | NE |
| | | | ACGIH / STEL | NE |
| | | | OSHA /TWA | NE |
| | | | OSHA/ STEL | NE |

III. HEALTH HAZARD INFORMATION

| Effects of Overexposure |
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| <p>Inhalation: This product 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/M³. Exposures below 5 mg/M³ 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.</p> |
| <p>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.</p> |
| <p>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.</p> |
| <p>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,</p> |

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 |
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| Eyes: Immediately flush eyes with large amounts of water and continue flushing for 15 minutes until irritation subsides. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. 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. Launder contaminated clothing before reuse. |
| 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

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| Flash Point °F: > 200 F | Auto-ignition Temperature °F: No Data | |
| Flammable Limits in Air (% Volume) | Lower Limit: No Data | Upper Limit: No Data |
| Extinguishing Media: Use water fog, foam, CO ₂ , or dry chemical extinguishing media. | | |
| Special Fire Fighting Procedures: Fire fighters use self-contained breathing apparatus and protective clothing. Water or water spray 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 with an inert material such as vermiculite, sand, dirt, etc. Scrape up with trowel or scoop and place in a suitable container. Clean up with a suitable solvent.

VII. HANDLING AND STORAGE

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| Handling and Storage: Store in containers in a cool, well-ventilated area. Keep containers closed. Keep away from all sources of ignition, open flame, 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. Always wash hands and face with soap and water before eating, drinking, and smoking. |

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. |
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| 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 chemical resistant rubber gloves |
| Eye: If material is handled such that it could be splashed into eyes, wear plastic face mask, face shield or splash-proof safety goggles. |

IX. PHYSICAL AND CHEMICAL DATA

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| Boiling Range °F: 510-600 | Vapor Density (Air = 1): < 1 |
| Relative Density (H₂O = 1): 2.60 - 3.10 | Vapor Pressure (mm Hg @ 68°F): 0.1 |
| Material Density Lbs./Gal: 21.65 - 25.82 | Solubility in Water: Insoluble |
| % Volatiles by Weight: < 5.0 | % Solids by Weight: 95 |
| VOC: lbs/gal: 1.29 g/L: 155.0 | Appearance/Odor: White paste |

X. STABILITY AND REACTIVITY INFORMATION

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

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| 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 |
| No toxicity studies have been conducted on this product. As with all chemicals for which test data are limited or do not exist, caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure. | |

XII. ECOLOGICAL INFORMATION

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| This product has not been evaluated at this time. Do not allow to enter waterways, sewers or drains. |
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XIII. DISPOSAL INFORMATION

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| 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. Do not allow to enter sewers, drains, waterways etc. |
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XIV. TRANSPORT INFORMATION

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| Flammability Classification: Combustible Liquid |
| OSHA: Class III B |
| DOT: Not Regulated |

XV. REGULATORY INFORMATION

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| SARA Title III Section 313: This material may contain chemicals subject to the reporting requirements of the SARA Superfund Amendments and Reauthorization Act. | | |
| Cobalt tallate | 61789-52-4 | trace amounts |
| Manganese comp. Glycol Ethers, Diethylene glycol monohexyl ether | 112-59-4 | trace amounts |
| U.S. CERCLA SARA Title III Section 312 Hazard Category: (40 CFR 311/312): Not Hazardous | | |

TSCA Section 8(b) Inventory Status:

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

Canadian Domestic Substances List (DSL):

Canadian DSL: One or more components are listed on the NDSL

U.S. State Regulations

California Proposition 65:

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

Benzene 71-43-2 Trace amount

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.