Material Safety Data Sheet #303

For Printing Inks and related Materials

OSHA Hazard Communication Standard, 29 CFR 1910.1200

 Date of preparation:
 04/17/06

 Updated:
 12/5/2011

 Supersedes:
 8/19/09

 MSDS#:
 303

I. PRODUCT IDENTIFICATION

| Manufacturer: Gans Ink and Supply Co, Inc. | HMIS HAZARD IDENTIFICATION |
|--|-----------------------------|
| Address: 1441 Boyd Street | |
| Los Angeles, CA 90033 | |
| | Health 2 |
| Emergency phone: (323) 264-2200 | Flammability 0 |
| | Reactivity 0 |
| | Personal B |
| | Protection |
| | |
| | |
| Product Class: Lithographic Fountain concentrate | Manufacturer's code: S-1803 |
| Trade Name: Diamond Etch WT | |

II. HAZARDOUS INGREDIENTS

| Material | CAS# | % | Exposure Limits | Units |
|------------------|-----------|-------|------------------------|---------|
| Ammonium Nitrate | 6484-52-2 | 1 – 5 | OSHA / PEL | 10 ppm |
| | | | ACGIH TLV / TWA | 10 ppm |
| | | | ACGIH STEL / TLV | 15 ppm |
| Acetic Acid | 64-19-7 | 1-5 | OSHA PEL | NE |
| | | | ACGIH TLV / TWA | NE |
| | | | ACGIH STEL / TLV | NE |
| Sodium Hydroxide | 1310-73-2 | 1 – 5 | OSHA / PEL | 2 mg/m3 |
| , | | | ACGIH TLV/ TWA | 2 mg/m3 |
| | | | ACGIH STEL / TLV | NE |

The components listed are identified as hazardous chemicals based upon the criteria of the OSHA Hazard Communication Standard (29 CFR 1910. 1200)

NE= Not Established

III. HEALTH HAZARD INFORMATION

Effects of Overexposure

Inhalation: Avoid breathing of mists or vapors. Inhalation of excessive concentrations of vapors or mist may cause irritation of nose and throat, drowsiness, loss of coordination, headaches and fatigue. Acute overexposure may result in irritation of the throat and lungs.

Skin Contact: Avoid skin contact. Skin contact is expected to be the primary route of occupational exposure. One or more components of this material are a skin irritant. 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. This product may be absorbed through the skin. No chronic health hazards are associated with the components present in this product.

Eye Contact: Avoid eye contact. One or more components of this product is an eye irritant. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing and swelling. Exposure to high concentrations of vapors may be irritating to the eyes.

Ingestion: Do not ingest. (Swallowing) One or more components of this product are toxic by ingestion. Symptoms of toxicity include: abdominal pain, nausea, vomiting, drowsiness, dizziness, malaise, and loss of

coordination, fatigue, possible blood disorders, and kidney and liver damage.

One or more components of this product is an Aspiration Hazard and can enter the lungs during swallowing or vomiting and cause lung inflammation and damage. May aggravate existing kidney disease. See *Notes to Physician* section below.

IV. FIRST AID PROCEDURES

Emergency & First Aid Procedures

Eyes: In case of eye contact, immediately flush eyes with large amounts of water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Seek immediate medical attention.

Skin: If product comes in contact with skin, immediately flush affected area with soap, water and remove contaminated clothing. Wash clothing before future reuse. If redness or irritation occurs or skin is damaged, apply dressing and seek immediate medical attention.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If breathing stops, administer artificial respiration and supply oxygen if it is available. If victim is unconscious, remove to fresh air and seek immediate medical attention.

Ingestion: Obtain medical attention immediately. If victim is fully conscious, give two glasses of water. Do not induce vomiting.

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 if aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration.

Treat according to symptoms (decontamination, vital functions, etc.) There is no known specific antidote.

V. FIRE AND EXPLOSION DATA

| Flash Point °F: > 200 °F (Closed Cup | | Auto-ignition Temperature °F: No Data | | |
|---|----------------|---------------------------------------|----------------------|--|
| Flammable Limits in Air (% | Lower Limit: N | o Data | Upper Limit: No Data | |
| Volume) | | | | |
| Extinguishing Media: Use water for from CO, or dry chemical extinguishing media | | | | |

Extinguishing Media: Use water fog, foam, CO₂, or dry chemical extinguishing media.

Special Fire Fighting Procedures: Firefighters use self contained breathing apparatus, may produce hazardous gases during fire conditions. This product will not burn.

Unusual Fire & Explosion Hazard: Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and oxides of nitrogen and sulfur may be generated as products of combustion.

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Keep unnecessary personnel away from spill area. Ventilate area of spill. Use appropriate personal protective equipment. Absorb small spills with an inert absorbent material such as vermiculite, sand, dirt, etc. If large spill, dike off area before collecting for recovery or disposal. Scrape up with trowel or scoop and place in a suitable container for disposal. Dispose in accordance with local, state and federal regulations. Clean up with a strong detergent and water. Keep all materials out of drains, sewers, or waterways.

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor. Keep containers closed when not in use. Do not store in areas with excessive hot or cold temperatures. Protect from temperatures above $10^{\circ} \, \text{F} / 40 \, ^{\circ} \text{C}$ or below $10^{\circ} \, \text{F} / -12 \, ^{\circ} \text{C}$. Protect from freezing. Wear chemical safety goggles or glasses, apron and impervious gloves when handling. 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. Avoid prolonged contact with skin, contact with eyes, and breathing of mist or vapor.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Requirements: General room ventilation is adequate. 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 /MSHA certified. Do not use compressed oxygen in hydrocarbon atmospheres.

Skin: Use impervious gloves when handling. Use a chemical resistant apron when handling. Provide readily accessible safety showers.

Eye: Eye protection is required under conditions of normal use. Safety glasses, full face shield or chemical safety goggles are recommended to prevent eye contact. Eye protection should meet specifications of ANSI Z87. Provide readily accessible eye wash stations.

IX. PHYSICAL AND CHEMICAL DATA

| IA. I II I SICAL AN | D CHEMICAL DATA |
|---|--|
| Boiling Range ° F : 212 °F | Vapor Density (Air = 1): > 1 |
| Relative Density ($H_2O = 1$): 1.06 | Evaporation Rate: < Water |
| Material Density Lbs./Gal: 8.80 | Solubility in Water: Soluble |
| % Volatile Organic Compounds (VOC) by | pH: 4.1 ± 0.2 |
| Weight: 2.3 | Vapor Pressure: No Data |
| VOC as packaged: VOC Lbs/Gal: 0.20 g/L: 24.1 This product must be diluted before application. Please see the product label for instructions. VOC as applied to image plate: • At 3 oz. S – 1803 / gal. water: VOC= .05% At 4 oz. S – 1803 / gal. water: VOC= .07% | Appearance/Odor: Glycolic / Green Clear Liquid |
| | |

X. STABILITY AND REACTIVITY INFORMATION

| M. STIDIETT I III (D REIT | | |
|--|---|--|
| Stability (Thermal, Light, etc.): Stable under | Conditions to avoid: Avoid excessive heat, > 105°F | |
| conditions of storage and intended use. | (40°C) and sources of ignition. Avoid storage below | |
| | 40 °F (4.5 °C). | |
| Hazardous Polymerization: Will not occur if used | Materials to avoid: Keep away from strong acids, | |
| and stored as directed. | oxidizers, and strong bases. This product contains an | |
| | ammonia compound, keep away from household | |
| | bleach or industrial bleach products. Toxic gases can | |
| | occur. | |
| Hazardous Decomposition Products: Oxides of sulfur, oxides of carbon; oxides of nitrogen and ammonia | | |
| may be generated as products of combustion | | |

XI. TOXICOLOGICAL INFORMATION

CARCINOGEN: This product contains no listed carcinogens according to OSHA, ACGIH, the National Toxicology Program (NTP), or the International Agency for Research Cancer (IARC) in concentrations of 0.1 % or greater.

Mutagen:No DataTeratogen:No DataReproductive Toxicity:No Data

Information pertaining to the health effects and toxicity of the "pure" form of the hazardous components identified in Section 2 is presented below. This information reflects the known hazards associated with the

components and may not reflect that of the purchased material due to concentration (dilution) effects. Review and interpretation by your Hazard Communication Department is recommended.

| | LD50 (Oral Rat) | LC50 (Species) | LD50 (Species) |
|------------------|-----------------|-----------------------|----------------|
| Acetic Acid | 3310 mg/kg | 5620 ppm / hr (Mouse) | Not Available |
| Ammonium Nitrate | 2217 mg/kg | Not Available | Not Available |
| Sodium Hydroxide | 0.24 g/kg | Not Available | Not Available |

XII. ECOLOGICAL INFORMATION

Information pertaining to the ecological fate of the "pure" form of the hazardous components identified in Section 2 is presented below. This information reflects the known hazards associated with the components and may not reflect that of the purchased material due to concentration (dilution) effects. Review and interpretation by your Hazard Communication Department is recommended

Ecotoxicity Data: No information available Chemical Fate Data: No information available.

Do not allow to enter waterways, drains, sewers or lakes.

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.

Since emptied containers may retain product residues, all hazard precautions given in this data sheet should be observed

XIV. TRANSPORT INFORMATION

| Combustible |
|----------------|
| Class III B |
| Not Regulated |
| Not applicable |
| Not applicable |
| Not applicable |
| Not Regulated |
| Not applicable |
| Not applicable |
| Not applicable |
| Not Regulated |
| Not applicable |
| Not applicable |
| Not applicable |
| Not Regulated |
| Not applicable |
| Not applicable |
| Not applicable |
| |

XV. REGULATORY INFORMATION

"Note" Ingredient information listed in this section is provided for reporting requirements as directed by USEPA, state and local regulation. If ingredients are listed in Section 2 but not in this section then the concentration is below "de minimus" (less than 0.1%).

US Federal Regulations

313 = SARA Title III Section 313(40 CFR 372- Toxic Release Inventory)

355= SARA Section Title III Section 302 (40 CFR 355- Extremely Hazardous Substance)

302= SARA Section Title III Section 304 (40 CFR 302- Hazardous Substance List)

CWA= Clean Water Act Priority Pollutants List

CAA= Clean Air Act 1990Hazardous Air Contaminants

HAP= Clean Air Act, Hazardous Air Pollutants (HAPs)

| <u>Chemicals</u> | CAS# | 313 | 355 | 302 | CWA | CAA | HAP |
|------------------|-----------|-----|-----|-----|-----|-----|-----|
| Acetic Acid | 64-19-7 | No | No | Yes | Yes | Yes | No |
| Ammonium Nitrate | 6484-52-2 | Yes | Yes | Yes | No | No | No |
| Sodium Hydroxide | 1310-73-2 | No | No | No | Yes | No | No |

TSCA Section 8(b) Inventory Status:

All component(s) of this product are either exempt or listed on the TSCA Inventory List (40 CFR 710).

U.S. State Regulations

| Chemicals | CAS# | PA | NJ | MN | MI | MA | FL |
|------------------|-----------|-----|-----|-----|----|-----|-----|
| Acetic Acid | 64-19-7 | Yes | Yes | Yes | No | Yes | Yes |
| Ammonium Nitrate | 6484-52-2 | Yes | Yes | Yes | No | Yes | Yes |
| Sodium Hydroxide | 1310-73-2 | Yes | No | Yes | No | Yes | Yes |
| Gum Arabic | 9000-01-5 | No | Yes | No | No | No | No |

FL= Florida Hazardous Substance List
MI- Michigan Critical Materials List
MJ= New Jersey Right- To- Know List
MA= Massachusetts Right- To-Know List
MN= Minnesota Hazardous Substance List
PA= Pennsylvania Right-To-Know List

CERCLA Reportable Quantities

Components present which could require reporting under CERCLA 40 CFR 302.4

| <u>Chemical</u> | CAS# | CERCLA RO |
|------------------|-----------|------------|
| Acetic Acid | 64-19-7 | 5,000 lbs. |
| Sodium Hydroxide | 1310-73-2 | 1,000 lbs. |

Coalition of Northeast Governors (CONEG) Legislation:

This product is certified to be in full compliance with CONEG Model Toxics Legislation for packaging and packaging components.

U.S. State Regulations

California Proposition 65:

This product does not 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.

Canadian WHMIS Classification

Components present listed in the WHMIS hazardous ingredient disclosure list.

| Chemical | CAS# |
|------------------|-----------|
| Acetic Acid | 64-19-7 |
| Citric Acid | 77-92-9 |
| Sodium Hydroxide | 1310-73-2 |
| Succinic Acid | 110-15-6 |

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.





Safety Glasses Gloves