

Material Safety Data Sheet # 354
For Printing Inks and related Materials
OSHA Hazard Communication Standard, 29 CFR 1910.1200

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 MSDS #: 354

I. PRODUCT IDENTIFICATION

Manufacturer: Gans Ink and Supply Co, Inc. Address: 1441 Boyd Street Los Angeles, CA 90033 Emergency phone: (323) 264-2200	HMIS HAZARD IDENTIFICATION	
	Health	1
	Flammability	0
	Reactivity	0
	Personal Protection	A
Product Class: Aqueous Satin Coating	Manufacturer's code: S-1885	
Trade Name: WB Coating, Satin AQ-533		

II COMPOSITION / INGREDIENTS

Material	CAS #	%	Exposure Limits	Units
Ammonia Hydroxide	1336-21-6	0 - 1	ACGIH TWA/ TLV ACGIH / STEL OSHA PEL	25 ppm 35 ppm 50 ppm
Isopropyl Alcohol	67-63-0	1-3	ACGIH TWA/ TLV ACGIH / STEL OSHA PEL	200 ppm 400 ppm 400 ppm
Sodium Dioctylsulfosuccinate	577-11-7	1 – 5	ACGIH TWA/ TLV ACGIH / STEL OSHA PEL	NE NE NE

The amount of Ammonium Hydroxide reported in Section 2 is calculated to be the excess neutralizer after creation of the polymer solution.

* NE = Not Established

III. HEALTH HAZARD INFORMATION

Effects of Overexposure
Inhalation: Inhalation is an unlikely route of exposure under conditions of intended use. Higher temperatures may generate inhalation of excessive concentrations of vapors or mists and may cause irritation of eyes, nose and throat, respiratory tract. No chronic health hazards are associated with the components present in this product.
Skin Contact: Avoid skin contact. Skin contact is expected to be the primary route of occupational exposure. Prolonged or repeated contact may cause mild irritation. Symptoms may include redness, itching, drying and cracking of the skin.
Eye Contact: Avoid eye contact. Contact with eyes may cause mild irritation. Symptoms may include stinging, tearing, redness, swelling and/ or burning.
Ingestion: Do not ingest. Ingestion is an unlikely route of exposure under conditions of intended use. Deliberate ingestion of excessive quantities may be harmful. One or more components of this product are toxic when swallowed. Symptoms of oral intoxication include: Irritation of digestive tract, drowsiness, dizziness, loss of coordination, fatigue, possible blood disorders, and kidney & liver damage. One or more components in an aspiration hazard and can enter lungs during swallowing or vomiting, and cause lung inflammation and damage. See Notes to Physician section below.

IV. FIRST AID PROCEDURES

Emergency & First Aid Procedures
Eyes: In case of eye contact flush eyes with large amounts of water and continue flushing for 15 minutes, lifting upper and lower lids occasionally. Seek immediate medical attention if irritation or redness persists.
Skin: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. Solvents should not be used to clean skin because of increased penetration potential. Seek immediate medical attention .if redness or irritation persists. Wash clothing and thoroughly clean shoes before reuse.
Inhalation: Inhalation of excessive concentrations of vapors or mists may cause irritation of nose and throat, drowsiness, loss of coordination, headaches and fatigue. If any of these symptoms occur, victim should seek air free of vapors. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen if it is available. Seek immediate medical attention.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth and then drink plenty of water. 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 if aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with risk of aspiration. Treat according to symptoms (decontamination, vital functions), 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: No Data	Upper Limit: No Data
Extinguishing Media: Water spray, dry extinguishing media, foam.		
Special Fire Fighting Procedures: Water may be used as an extinguishing medium. The use of self-contained breathing apparatus is recommended for fire fighters. Cool containers and use caution when approaching or handling fire-exposed containers.		
Unusual Fire & Explosion Hazard: The container may burn and leak in the heat of a fire.		

VI. ACCIDENTAL RELEASE

Steps to be taken in event of spill or release: Keep unnecessary personnel away from spill area. Ventilate area of spill. Stop and/ or contain discharge. Cover with absorbent material. (If large spill, dike area). Pick up and dispose of material in suitable container for disposal. Keep all materials out of waterways, sewers or drains.

VII. HANDLING AND STORAGE

Handling and Storage: Store in containers in a cool, well-ventilated area. Close container after each use. The slight ammonia smell can become stronger if the coating will be heated higher than room temperature. It is recommended that containers of this product be stored between 40 F and 115 F (4.5 C – 45C). Avoid sources of ignition. Take precautionary measures against static discharges. Must mix well before using. Protect from freezing. Product may congeal or stratify (form layers) if cold.
Other Precautions: For industrial use only. Do not ingest. 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.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Requirements: General mechanical ventilation may be sufficient to keep product vapor concentrations within specified time- weighted TLV ranges. 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: Use impervious gloves when handling. Use chemical resistant apron if a hazard exists. Readily accessible safety showers are recommended.

Eye: Use approved eye protection to safeguard against potential eye contact, irritation, and injury. Use safety glasses, chemical safety goggles or full face shield. Readily eye wash stations are recommended.

IX. PHYSICAL AND CHEMICAL DATA

Boiling Point °F: 212 °F	Vapor Density (Air = 1): .N/A
Relative Density (H₂O = 1): 1.04	Vapor Pressure (mm Hg @ 70°F): N/A
Material Density Lbs./Gal: 8.70	Solubility in Water: Soluble
% Volatiles by Volume: 3.6	Evaporation Rate: N/A pH: 9.4
VOC: Lbs/Gal: 0.31 g/L 37.4	Appearance/Odor: Milky white liquid/ Slight Ammonia odor

X. STABILITY AND REACTIVITY INFORMATION

Stability (Thermal, Light, etc.): Stable under normal conditions of storage and intended use.	Conditions to avoid: Excessive heat, above 140°F (45C) and sources of ignition. Excessive cold, avoid storage below 40 F (4. 5C) and above 115F (45C)
Hazardous Polymerization: Will not occur.	Materials to avoid: Keep away from strong Acids
Hazardous Products of Combustion: Carbon monoxide (CO), carbon dioxide; oxides of nitrogen and sulfur.	

XI. TOXICOLOGICAL INFORMATION

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

Mutagen: No Data
Teratogen: No Data
Reproductive Toxicity: No Data

Sodium Dioctylsuccinate

Oral: LD50: 1900 mg/kg (rat)
Draize Test, Skin: 10mg/24H Moderate (rabbit)
Draize Test, Eye: 1% Severe (rabbit)
Inhalation: No information available

Isopropyl Alcohol:

Oral: LD50: 5045 mg/kg (rat)
Skin Irritant: LD50: 5030-7900 mg/kg (rabbit)
Eye Irritant: No information available
Inhalation: LC50: 16000 ppm, 4h (rat)

Ammonium Hydroxide

Oral: LD50: 350 mg/ kg (rat)
Skin Irritant: Severe Irritant (rabbit)
Eye Irritant: Severe irritant (rabbit)\
Carcinogenicity: Not Listed by ACGIH, IARC, NTP, or OSHA

XII. ECOLOGICAL INFORMATION

This information reflects the known hazards associated with the component and may not reflect that of the purchased material due to concentration (dilution) effects.

No information for Sodium Dioctylsulfosuccinate and Isopropyl Alcohol

Ammonium Hydroxide		
Fish: Rainbow Trout:	LC50:	0.008 mg/L; 24 hr
Fish: Fathead minnow:	LC50:	8.2 mg/L; 24hr
Water Flea: Daphnia;	EC50:	0.66 mg/L; 48hr

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. Do not allow to enter waterways, sewers or drains.
 Since emptied containers may retain product residues, all hazardous precautions given in this data sheet should be observed.

XIV. TRANSPORT INFORMATION

Flammability Classification:	Combustible Liquid
OSHA:	Class III B
DOT Hazard Classification (ground):	Not applicable
DOT Shipping Name:	Resin Compound Liquid
DOT Packing Group:	Not applicable
UN ID:	Not applicable
IMDG Hazard Classification (ocean):	Not applicable
IMDG Shipping Name:	Resin Compound Liquid
IMDG Packing Group:	Not applicable
UN ID:	Not applicable
ICAO/ IATA Hazard Classification (air):	Not applicable
ICAO/ IATA Shipping Name:	Resin Compound Liquid
ICAO/IATA Packing Group:	Not applicable
UN ID:	Not applicable
TDG Hazard Classification (ground):	Not applicable
TDG Shipping Name:	Resin Compound Liquid
TDG Packing Group:	Not applicable
UN ID:	Not applicable

XV. REGULATORY INFORMATION

EPA SARA Title III Section 313 (40 CFR 372) Component (s) above 'de minimus' level:
 This material contains the following chemicals subject to the reporting requirements of the Superfund Amendments and Reauthorization ACT, SARA 313-40 CFR 372.65

<u>Chemical:</u>	<u>CAS #</u>	<u>%</u>
Ammonia Hydroxide	1336-21-6	0 - 1

TSCA Section 8(b) Inventory Status:
 All component(s) of this product are listed or have been registered on the TSCA Section 8 (b) Chemical Substance Inventory List (40 CFR 710).

CERCLA Reportable Quantities
 These component(s) present which could require reporting under CERCLA 40 CFR 302.4.

<u>Chemical:</u>	<u>CAS #</u>	<u>CERCLA RQ</u>
Ammonia Hydroxide	1336-21-6	1000 LBS

Canadian WHMIS Classification:

These component(s) present are listed on the WHMIS hazardous ingredient disclosure list:

<u>Chemical:</u>	<u>CAS #</u>	<u>%</u>
Ammonia Hydroxide	1336-21-6	0 - 1

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. do not routinely analyze its products for impurities which may be such chemicals.

Clean Air Act Amendment (HAPs)

This product does not contain any chemicals which are defined as Hazardous Air Pollutants under Title III of the Clean Air Act Amendments of 1990.

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.

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. In accordance with good practices of personal cleanliness and hygiene, handle with due care and avoid unnecessary contact with this product.