

**Material Safety Data Sheet # 285**  
**For Printing Inks and related Materials**  
**OSHA Hazard Communication Standard, 29 CFR 1910.1200**

Date of preparation: 7/6/2010  
MSDS #: 285

**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>	
	Health	2
	Flammability	1
	Reactivity	1
	Personal Protection	B
<b>Product Class:</b> UV Coating	<b>Manufacturer's code:</b> G019239	
<b>Trade Name:</b> Mohawk UV Foam Coating		

**II. HAZARDOUS INGREDIENTS**

Material	CAS #	%	Exposure Limits	Units
Isobornyl acrylate EINECS 227-561-6	5888-33-5	2.8	Not Established	
Neopentylglycol Propoxylated Diacrylate	84170-74-1	58.5	Not Established	Xi; R36
Acrylates, mixtures	not available	22	Not Established	
The specific chemical identity (including CAS No.) and / or specific concentrations of the constituents contained in this vehicle are regarded as "Trade Secret" information.				

**III. HEALTH HAZARD INFORMATION**

<b>Effects of Overexposure</b>
<b>Inhalation:</b> Avoid Inhalation. May cause respiratory tract irritation. Acute overexposure may result in irritation of the throat and lungs.
<b>Skin Contact:</b> Warning: May cause skin irritation. Contact with skin may cause mild to moderate irritation. Material may cause allergic skin reaction. Symptoms may include redness, itching, drying and cracking of skin. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. Individuals with pre-existing skin disorders can be at greater risk. Those known to be sensitized to acrylates should avoid all exposure to this product. This condition may make the skin more susceptible to other irritants, sensitizers, and disease.
<b>Eye Contact:</b> Warning: Avoid eye contact. Contact with eyes may cause moderate to severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and / or burning. Individuals with pre-existing eye disorders can be at greater risk. Those known to be sensitized to acrylates should avoid all exposure to this product.
<b>Ingestion:</b> Do not ingest. Excessive quantities may be harmful. Ingestion is an unlikely route of exposure. See <i>Notes to Physician</i> section below.

**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, lifting upper and lower lids occasionally. Seek immediate medical attention.

<b>Skin:</b> 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 irritation persists. Wash clothing and thoroughly clean shoes before reuse.
<b>Inhalation:</b> 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> 212 F	<b>Auto-ignition Temperature °F:</b> No Data	
<b>Flammable Limits in Air (% Volume)</b>	<b>Lower Limit:</b> No Data	<b>Upper Limit:</b> No Data
<b>Extinguishing Media:</b> Use water fog, foam, CO <sub>2</sub> , or dry chemical extinguishing media. Avoid use of high pressure water jet.		
<b>Special Fire Fighting Procedures:</b> The use of self-contained breathing apparatus and full protective gear is recommended for firefighters. Water may be used to cool exposed containers to prevent pressure buildup and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.		
<b>Unusual Fire &amp; Explosion Hazard:</b> Dense smoke may be generated while burning; carbon dioxide, carbon monoxide, and other oxides may be generated as products of combustion.		

#### VI. ACCIDENTAL RELEASE

<b>Steps to be taken in event of spill or release:</b> Ensure adequate ventilation. Keep personnel away from and upwind of spill or leak. Absorb with inert material, such as vermiculite, sand, silica gel, clay or dirt. Scrape up with trowel or scoop and place in a suitable container. Do not flush or allow to enter waterways, sewers or drains.
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#### VII. HANDLING AND STORAGE

<b>Handling and Storage:</b> Avoid contact with eyes, skin and clothing. Wear impermeable gloves and protective clothing when handling. Provide good ventilation when working with material. Avoid breathing of vapor or mist. Keep containers closed. Keep away from heat, and sources of ignition. Keep away from direct sunlight. Store containers in a cool, well-ventilated area. Store at temperatures between 4 °C– 40 °C (40 °F – 104 °F). Always wash hands and face with soap and water before eating, drinking, and smoking.
<b>Other Precautions:</b> For industrial use only. Do not ingest. Food, beverages and tobacco products should not be stored, carried or consumed in work areas.

#### VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Ventilation Requirements:</b> Adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specific exposure or flammable limits.
<b>Personal Protective Equipment</b>
<b>Respirator:</b> 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.
<b>Skin:</b> Use impermeable gloves and clothing when handling. Replace gloves immediately when torn or any change in appearance (dimension, color, flexibility etc. is noticed. Safety showers are recommended.
<b>Eye:</b> Eye protection is required under conditions of normal use. Wear plastic face shield or splash-proof safety glasses or goggles. Eyewash equipment should be provided in areas of potential exposure.

#### IX. PHYSICAL AND CHEMICAL DATA

<b>Boiling Range °F:</b> 212 F	<b>Vapor Density (Air = 1):</b> No Data
<b>Relative Density (H<sub>2</sub>O = 1):</b> 1.04	<b>Vapor Pressure (mm Hg @ 70°F):</b> < 0.1

<b>Material Density Lbs./Gal:</b> 8.66	<b>Solubility in Water:</b> Sl. Soluble
<b>% Volatile Organic Compounds (VOC) by Weight:</b> < 0.2	<b>Evaporation Rate:</b> Not available <b>pH:</b> No Data
<b>VOC: lbs/gal:</b> 0.016 <b>g/L:</b> 1.98	<b>Appearance/Odor:</b> Light Brown Liquid

#### X. STABILITY AND REACTIVITY INFORMATION

<b>Stability (Thermal, Light, etc.):</b> Stable	<b>Conditions to avoid:</b> Excessive heat, sources of ignition. Direct sunlight, excessive temperatures. Store at temperatures between 4 °C – 40 °C (40 °F – 104 °F).
<b>Hazardous Polymerization:</b> May occur. Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage containers. Hazardous polymerization can occur when exposed to direct sunlight, ultraviolet light or heat.	<b>Materials to avoid:</b> Avoid free radical producing initiators. Avoid contact with peroxides, alkalis, and reactive metals.
<b>Hazardous Decomposition Products:</b> CO <sub>2</sub> , CO, hydrocarbons, nitrogen oxides, 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
This product as a whole has not been evaluated. However direct contact with this material may cause mild eye and skin irritation	
Isobornyl Acrylate (estimated)	
Oral:	LD50 Rat 2300- 4350 mg/kg
Dermal:	LD50 Rabbit > 5000 mg/kg

#### XII. ECOLOGICAL INFORMATION

This product has not been evaluated at this time. As with all products do not allow to enter waterways, drains or sewers
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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>	
<b>OSHA:</b>	Class III B
<b>DOT (Ground):</b>	Not Regulated
<b>IMO/ IMDG (Sea):</b>	Not Regulated
<b>IATA/ ICAO (Air):</b>	Not Regulated
<b>Canada TDG (Ground):</b>	Not Regulated
<b>Not classified as dangerous in the meaning of transport regulations.</b>	

## 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 Section 311/312 – Hazard Communication Standard (HCS):**

Product hazard classification under Section 311:

Acute

Reactive

### **TSCA Section 8(b) Inventory Status:**

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

### **International Regulations**

**Canada:** All components of this product are included on the Domestic Substance List (DSL) or are not required to be listed on the DSL.

**Australia:** All components of this product are included on the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the AICS.

**China:** All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese Inventory.

**Japan:** All components of this product are included on the Japanese (ENCS) or are not required to be listed on the Japanese Inventory.

**Korea:** All components of this product are included on the Korean (ECL) or are not required to be listed on the Korean Inventory.

**Philippines:** All components of this product are NOT included on the Philippine (PICCS) inventory.

### **U.S. State Regulations**

#### **California Proposition 65:**

This product contains a chemical(s) known by the state of California to cause developmental or reproductive harm.

<b><u>Chemical</u></b>	<b><u>CAS #</u></b>	<b><u>%</u></b>
Toluene	108-88-3	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.