

Product Code: 4877-1  
 Product Name: 550 VOC WHITE PRECATALYZED SATIN

GEMINI INDUSTRIES, INC., 2300 HOLLOWAY DRIVE, EL RENO, OK 73036  
 24-Hour Emergency (Spill, Leak, Exposure or Accident): INFOTRAC 800-535-5053 Outside USA, Call Collect 1-352-323-3500  
 24-Hour Emergency HAZMAT Response and MSDS help: EMI 800-510-8510

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

(SEE TOP OF PAGE)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENT/EXPOSURE LIMITS</u>	<u>CAS#</u>
UREA RESIN 942	MIXTURE
ETHYL BENZENE: TLV TWA 110ppm, PEL TWA 100ppm, TLV STEL 125ppm	
ISOBUTANOL: TLV TWA 50ppm, PEL TWA 100ppm	
FORMALDEHYDE: PEL TWA .75ppm, PEL STEL 2.00ppm TLV CIEL .3ppm	
XYLENE: TLV TWA 100ppm, PEL TWA 100ppm TLV STEL 150ppm	
ACETONE	67-64-1
OSHA VPEL 750 ppm TWA	
OSHA VPEL 1000 ppm STEL	
ACGIH TLV 500ppm TWA	
ACGIH TLV 750 ppm STEL	
NITROCELLULOSE	9004-70-0
METHYL N-AMYL KETONE	110-43-0
ACGIH TLV: METHYL N-AMYL KETONE: 50ppm TWA	
OSHA PEL: METHYL N-AMYL KETONE: 100ppm TWA	
n-BUTANOL	71-36-3
OSHA PEL: 100ppm TWA	
ACGIH TLV 50ppm	
BUTYL ACETATE	123-86-4
2-PROPOXYETHANOL	29911-28-2
ACGIH TLV: NOT LISTED	
OSHA PEL: NOT LISTED	
PLASTICIZER	68515-42-4
ISOPROPANOL	67-63-0
400ppm TWA8 ACGIH, 983 mg/m3 TWA8 ACGIH	
980mg/m3 TWA8 OSHA, 500ppm STEL OSHA	
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2
ACGIH 25ppm TWA	
OSHA 25ppm TWA	
ISOBUTYL ALCOHOL	78-83-1
XYLENE	1330-20-7
OSHA: 100 PPM PEL-TWA	
NIOSH: 100 PPM PEL-TWA	

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ETHYLBENZENE

100-41-4

FORMALDEHYDE

50-00-0

### 3. HAZARDS IDENTIFICATION

Flammable in a liquid state

Vapor causes eye burns and skin irritation

Contains trace amounts of free formaldehyde

Inhalation of formaldehyde vapors has caused cancer in tests using laboratory animals.

#### POTENTIAL HEALTH EFFECTS

##### SKIN:

Widespread contact with skin for several hours can cause harmful amounts of material to be absorbed.

##### INGESTION:

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

##### INHALATION:

High vapor concentrations or prolonged breathing of lower concentrations may result in damage to the liver, kidneys, lungs and blood forming organs.

### 4. FIRST AID MEASURES

##### EYES:

Flush with luke warm water for a minimum of 15 minutes. Seek medical attention immediately.

##### SKIN:

Remove contaminated clothing, wash area immediately with soap and water. See physician if irritation persists.

##### INGESTION:

Rinse mouth immediately. Drink 1 or 2 glasses of water to dilute. Do NOT induce vomiting. Contact physician or poison control center immediately.

##### INHALATION:

Remove exposed individual to fresh air and assist breathing if necessary. Seek immediate medical attention.

### 5. FIRE FIGHTING MEASURES

FLAMMABLE CLASSIFICATION: CLASS 1B FLAMMABLE

LOWEST FLASH POINT: 0F

METHOD: TCC

DOT: FLAMMABLE LIQUID

FLAMMABLE LIMITS:

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LOWER FLAMMABLE LIMIT: 0

UPPER FLAMMABLE LIMIT: 12.8

EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical

The National Fire Protection Association Class B extinguisher is designed to extinguish NFPA Class 1B flammable liquid fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively. Liquid and vapor states of this substance are dangerous fire hazards and moderate explosion hazards when exposed to heat or flame.

**FIREFIGHTING INSTRUCTIONS:**

Clear fire area of unprotected personnel. Do not enter confined space without helmet, face shield, bunker coat, gloves, rubber boots and a positive pressure NIOSH-approved self-contained breathing apparatus. A water stream can scatter flames. A spray of water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

**6. ACCIDENTAL RELEASE MEASURES**

Stay upwind and away from spill or leak unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for clean up. Cover with inert material to reduce fumes. Keep out of drains, sewer or waterways. If large spill occurs, alert spill response teams. Contact fire authorities. Notify local health and pollution control agencies.

**7. HANDLING AND STORAGE**

**HANDLING:**

Bond and ground metal containers when transferring liquid. Avoid free fall of liquid in excess of a few inches. Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid and/or solid), all hazard precautions given in this sheet must be observed.

**STORAGE:**

Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. DO NOT SMOKE in or near storage areas.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:**

PRIMARY ROUTES OF ENTRY: inhalation, skin contact, eyes, ingestion.

Use local exhaust as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use NIOSH-approved respirator to prevent overexposure.

**SKIN PROTECTION:**

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

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**EYE PROTECTION:**

Wear splashproof goggles and face shield if there is a likelihood of contact with eyes.

**HYGENIC PRACTICES:**

Wash hands thoroughly before eating or using restroom. Remove contaminated clothing immediately and do not wear again until it has been properly laundered.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

BOILING POINT: 133F

MELTING POINT: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: Heavier Than Air

SOLUBILITY IN WATER: N/A

SPECIFIC GRAVITY: 1.034

COATING VOC LB/GL: 4.265 lb/gl

COATING VOC GM/LTR: 511 g/l

MATERIAL VOC LB/GL: 2.6723 lb/gl

MATERIAL VOC GM/LTR: 320 g/l

% VOLATILE BY VOLUME: 75.548%

EVAPORATION RATE: Faster than Butyl Acetate.

WEIGHT PER GALLON: 8.611 lb/gl

PH: N/A

ODOR: N/A

APPEARANCE: Colored Liquid

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:**

Stable      Conditions to Avoid: high heat, sparks, flames.

**INCOMPATIBILITY**

Materials to Avoid: Strong oxidizing agents, strong alkalines, strong mineral acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Oxidation may produce carbon and nitrogen oxides.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**CANCER INFORMATION:**

This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC or OSHA-Z in the other limits recommended column.

**TERATOLOGY (BIRTH DEFECT) INFORMATION:**

This product contains no reported or suspected teratogens.

**REPRODUCTION INFORMATION:**

Gaseous formaldehyde is classified as a Class B1 Probable Human Carcinogen by the IARC. This product contains a chemical known to the State of California to cause cancer.

**12. ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:**

Uncontrolled release of the product may result in contamination of air, ground, waterways and/or sewers.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with local, state and federal regulations.

**14. TRANSPORT INFORMATION**

DOT NUMBER: UN1263

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15. REGULATORY INFORMATION

HMIS HAZARD INDEX: 4=SEVERE, 3=SERIOUS, 2=MODERATE, 1=SLIGHT, 0=LEAST  
HEALTH: 2

FLAMMABILITY: 3

REACTIVITY: 0

PERSONAL PROTECTION: I

SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372(Chemicals listed below constitute the specific percentage of product by weight. Chemicals that do not have a listed percentage comprise less than 1% of total product weight):

		% BY WT
* UREA RESIN 942	MIXTURE	39
* n-BUTANOL	71-36-3	6
* ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	2
* XYLENE	1330-20-7	1
* ETHYLBENZENE	100-41-4	
* FORMALDEHYDE	50-00-0	

16. DISCLAIMER:

The following supercedes any provision contained in the forms, letters and papers of your company. This product is designed and intended for professional application only. All products should be thoroughly tested under application conditions prior to use. The information contained herein is believed to be reliable. HOWEVER, GEMINI MAKES NO WARRANTY CONCERNING THIS PRODUCT, WHETHER EXPRESS OR IMPLIED. INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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