

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	MiraVar 275 Opaque Conversion Varnish Satin White
<b>Product Code #</b>	310601.ST
<b>Manufacturer</b>	Gemini Industries, Inc.
<b>Address</b>	421 SE 27th Sreet El Reno, OK 73036
<b>Phone</b>	Local: (800) 262-5710 Toll Free: (800) 444-7833
<b>Emergency Contact</b>	CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300 International CHEMTREC, call: 1-800-255-3924
<b>Recommended Use/Restrictions</b>	For Wood Substrates Only.

### SECTION 2: HAZARD(S) IDENTIFICATION

<b>Classifications</b>	Acute Toxicity - Oral: Category 4 Acute Toxicity - Skin: Category 4 Acute Toxicity - Inhalation: Category 4 Skin Corrosion: Category 3 Eye Damage/Irritant: Category 1 Skin sensitization: Category 1B Carcinogenicity: Category 2 STOT Single Exposure: Category 3 Flammable Liquid: Category 2
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**Pictograms**

**Signal Word**

Danger

**Hazard Statements**

H302 | Harmful if swallowed.  
 H312 | Harmful if in contact with skin.  
 H332 | Harmful if inhaled.  
 H316 | Causes mild skin irritation.  
 H318 | Causes serious eye damage.  
 H317 | May cause an allergic skin reaction.  
 H351 | Suspected of causing cancer.  
 H336 | May cause drowsiness or dizziness.  
 H225 | Highly flammable liquid and vapor.

**Precautionary Statements**

P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P233 | Keep container tightly closed.  
 P240 | Ground/bond container and receiving equipment.  
 P241 | Use explosion-proof electrical/ventilating/lighting/other equipment.  
 P242 | Use only non-sparking tools.  
 P243 | Take precautionary measures against static discharge.  
 P201 | Obtain special instructions before use.  
 P202 | Do not handle until all safety precautions have been read and understood.  
 P261 | Avoid breathing dust/fume/gas/mist/vapors/spray.



P264 | Wash any exposed body parts thoroughly after handling.  
 P270 | Do not eat, drink or smoke when using this product.  
 P271 | Use only outdoors or in a well-ventilated area.  
 P272 | Contaminated work clothing should not be allowed out of the workplace.  
 P280 | Wear protective gloves/protective clothing/eye protection/face protection.  
 P281 | Use personal protective equipment as required.  
 P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P302 + P352 | IF ON SKIN: Wash with plenty of soap and water.  
 P303 + P361 + P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 | IF exposed or concerned: Get medical advice/attention.  
 P310 | Immediately call a POISON CENTER or doctor/physician.  
 P321 | Specific treatment (see supplemental first aid instruction on this label if immediate administration of antidote/specific measures/cleansing agent/immediate measures is/are appropriate/required).  
 P322 | Specific measures (see supplemental first aid instruction on this label if immediate measures such as specific cleansing agent is advised).  
 P330 | Rinse mouth.  
 P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention.  
 P363 | Wash contaminated clothing before reuse.  
 P370 + P378 | In case of fire: Use appropriate media for extinction if water increases risk.  
 P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 | Store in a well-ventilated place. Keep cool.  
 P405 | Store locked up.  
 P501 | Dispose of contents/container to appropriate waste disposal entity in accordance with local/regional/national/international regulation.

**Percent of the mixture consisting of ingredient(s) of unknown toxicity**

To the best of our knowledge, there are no additional ingredient(s) present requiring hazardous reporting or health warnings.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Components	% of Comp.	CAS No.
1-CHLORO-4-(TRIFLUOROMETHYL)-BENZENE	20 - 30%	98-56-6
ACETONE	10 - 20%	67-64-1
TITANIUM DIOXIDE	5 - 10%	13463-67-7
N-BUTYL ALCOHOL	5 - 10%	71-36-3
METHYL AMYL KETONE	1 - 5%	110-43-0
ETHYL BENZENE	< 1.0%	100-41-4

### SECTION 4: FIRST AID MEASURES

**General Advice**

Have Safety Data Sheet available when calling Poison Control Center (1-800-222-1222) or physician; or when going to the emergency room.



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<b>Eyes</b>	Immediately flush eye with plenty of water for 15 minutes, while lifting upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing. Check eye for chemical burns. Get medical attention. May cause eye burns. Get medical attention.
<b>Skin</b>	Immediately wash with soap and water. Remove contaminated clothing and shoes. Wash or clean thoroughly before reuse. Get medical attention if irritation persists.
<b>Inhalation</b>	Remove to exposure to fresh air. If breathing is difficult, give oxygen. If breathing is stopped, give artificial respiration. Keep person warm and quiet. Get medical attention.
<b>Ingestion</b>	DO NOT INDUCE VOMITING! Call Poison Control Center, (1-800-222-1222) or physician immediately. NOTE: Aspiration of solvents may result in chemical pneumonia.

### SECTION 5: FIRE FIGHTING MEASURES

<b>Fire Hazard</b>	Yes
<b>Extinguishing Media</b>	Foam, CO2, Dry Chemical, Water Mist
<b>Special Protective Equipment and Firefighting Procedures</b>	Evacuate all unnecessary personnel. Use full protective equipment. Cool closed containers to prevent pressure build-up and possible explosion. Direct water stream is not recommended for oil base fires. Product may float and reignite on surface of water. Do not allow product or runoff from fire control measures to enter storm or sanitary sewers or waterways.
<b>Unusual Fire &amp; Explosion</b>	Explosive vapor mixtures may form which is dangerous when exposed to heat and flame. Vapors are heavier than air and may travel along the ground, or be moved by ventilation, and ignited by pilot lights, stoves, heaters, electric motors, sparks, flame, smoking, static discharge or other ignition sources even at location distant from material handling site. Free falling stream of liquid may cause static electricity build-up and create fire hazard.
<b>Hazardous Combustion Products</b>	See Section 10

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid any uncontrolled release of material. Wear chemical splash goggles, impervious gloves, appropriate respirators, and protective clothing until all hazards are known.
<b>Spills / Leaks</b>	If spill/leak occurs, eliminate ignition sources and ventilate area. Evacuate all unnecessary personnel. Wear full protective equipment. Dike drains to prevent entering storm or sanitary sewers, rivers, streams, or waterways. Contain spill and cover with inert absorbent material. Clean using non-sparking tools (aluminum, brass, copper) and place mixture into containers for disposal. Note: Some spills/releases may require special reporting to local, state or federal agencies.

### SECTION 7: HANDLING AND STORAGE

<b>Handling</b>	Handle using good industrial hygiene and safety practices. Avoid breathing vapors, spray mists, or dusts. Avoid contact with eyes and skin. Do not take
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internally. Use adequate ventilation, respiratory and personal protection. Avoid spraying hot surfaces.

### Storage

Keep liquid and vapor away from heat, sparks, and flame. Turn off or remove all sources of ignition. Use proper methods of ventilation to prevent vapor buildup. Avoid contact with hot metal surfaces. Avoid free fall of liquids. Ground and bond fixed equipment, pails, drums and other transfer containers. Do not reuse, weld, drill, or heat empty containers which may contain explosive vapors.

Keep container closed when not in use and during transit. Store container in an upright position in a cool, dry environment and protect from damage. Use adequate ventilation. Follow label warnings until thoroughly cleaned or until container is sent for disposal. Do not remove or deface labels until empty containers have been destroyed or thoroughly cleaned. Do not transfer product to unlabeled containers. Do not store above 120 deg. F (50 deg. C).

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits

Chemical Description	OSHA PEL	ACGIH TLV	Other
1-Chloro-4-(trifluoromethyl)-benzene	NOT EST.	NOT EST.	NOT EST.
Acetone	1000 ppm	250 ppm	500 ppm STEL
Titanium dioxide	15 mg/m3	10 mg/m3	NOT EST.
n-Butyl alcohol	100 ppm	20 ppm	(skin)
Methyl amyl ketone	100 ppm	50 ppm	233 mg/m3
Ethyl benzene	100 ppm	20 ppm	434 mg/m3

**THIS PRODUCT CONTAINS A RESIN WITH THE POTENTIAL TO EMIT FORMALDEHYDE DURING USE. EXPOSURE LEVELS WILL VARY WITH SHOP CONDITIONS AND CONTROLS. BEFORE INITIAL USE, CONSULT OSHA'S FORMALDEHYDE STANDARD (29 CFR 1910.1048).**

### Engineering Controls

USE ONLY WITH ADEQUATE VENTILATION. Provide mechanical ventilation, local exhaust or other appropriate means of ventilation to prevent build-up of vapor or dust. Keep worker exposure to airborne contaminants below suggested or allowable limits. Keep area vapor and/or dust concentrations below lower explosive limits. Eye wash and safety showers are recommended in the workplace.

### Personal Protective Equipment

#### Hand

Wear impermeable, chemical resistant gloves to prevent skin contact. Consult safety equipment supplier for specific recommendations of construction material. Wash hands with soap and water after using and before eating or using tobacco products.

#### Eyes

Wear chemical goggles designed to protect eyes against vapor, liquid splash and mists unless full-face respirator is worn. Ensure eye wash and safety showers are near workstations. NOTE: Contact lenses may contribute to the severity of an eye injury and should be removed immediately if exposure occurs.

#### Skin

Wear protective clothing, including headcap, to avoid skin contact with liquid or overspray. Thoroughly clean contaminated clothing and shoes before reuse.

#### Respiratory

USE ADEQUATE VENTILATION! Ensure fresh air entry during application and drying. If you experience eye watering, headache, dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved for the hazardous ingredients listed in Section 3) during and after application. If appropriate, use respirator pre-filter or dust/particle mask to avoid breathing sanding dust Follow respirator



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manufacturer's instructions for use. Periodically monitor exposure levels to hazardous ingredients listed in Section 3 and review permissible exposure limits above.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Opaque liquid	<b>Upper Flammability/Explosive Limit</b>	12.80
<b>Odor</b>	Pungent solvent	<b>Lower Flammability/Explosive Limit</b>	0.90
<b>pH value</b>	No Data	<b>Vapor Pressure</b>	2.00
<b>Freezing Point (F)</b>	No Data	<b>Vapor Density</b>	2.00
<b>Boiling Point (F)</b>	No Data	<b>Vapor Temperature</b>	68.00
<b>Boiling Range</b>	133.00 - 304.00	<b>Relative Density/Specific Gravity</b>	9.56247
<b>Flash Point (F)</b>	-4.00	<b>Solubility</b>	Moderately Water Soluble
<b>Flash Point Method Used</b>	P Marten	<b>Partition Coefficient</b>	No Data
<b>Evaporation Rate</b>	Faster than butyl acetate	<b>Auto-Ignition Temperature</b>	No Data
<b>Flammability</b>	Yes	<b>Decomposition Temperature</b>	No Data
<b>Viscosity</b>	See Tech Data Sheet		

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Reactivity</b>	Will not occur.
<b>Chemical Stability</b>	Stable.
<b>Conditions to Avoid</b>	High temperatures, humidity, ignition sources and vapor build-up.
<b>Materials to Avoid</b>	Strong oxidizers, strong acids, strong bases
<b>Hazardous Decomposition</b>	Carbon Monoxide, Carbon Dioxide, Hydrocarbons, Aldehydes, Other Organic Compounds

## SECTION 11: TOXICOLOGICAL INFORMATION

## Acute Toxicity

Reportable Components	LD50 Oral	LC50 Inhalation	LD50 Dermal
1-Chloro-4-(trifluoromethyl)-benzene	Not available	Not available	Not available
Acetone	5,800 mg/kg	50,100 mg/m <sup>3</sup> (8H)	7,426 mg/kg
Titanium dioxide	Not available	Not available	Not available
n-Butyl alcohol	790 mg/kg	8,000 ppm (4H)	3,400 mg/kg
Methyl amyl ketone	1,600 mg/kg	> 16 mg/l (4H)	> 5,000 mg/kg
Ethyl benzene	3,500 mg/kg	Not available	15,433 mg/kg

## Inhalation

**Description of Effects From Short- and Long-Term Exposure:**



Vapors and mists irritate nose, throat, and lungs (burning, stinging, coughing). May cause headache, dizziness, nausea, weakness, shortness of breath and loss of coordination. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Exposure to extremely high vapor concentrations may cause unconsciousness and asphyxiation. Dust, sanding dusts and particles may cause nose and throat irritation. Harmful if inhaled.

## Ingestion

### Description of Effects From Short- and Long-Term Exposure:

Causes nausea, vomiting, diarrhea and severe central nervous system depression (headache, dizziness, nausea, loss of coordination). Harmful if swallowed.

## Eyes

### Description of Effects From Short- and Long-Term Exposure:

Contact with liquid or vapors causes severe irritation (redness, watering, itching, stinging, blurred vision) and possible cornea damage.

## Skin

### Description of Effects From Short- and Long-Term Exposure:

Contact causes mild to severe irritation (dryness, itching, cracking, rash and swelling) and possible burns with prolonged contact. Harmful if in contact with skin. May cause an allergic skin reaction.

## Carcinogen Information

Contains a chemical with the potential to cause cancer. Risk of cancer depends on level and duration of exposure.

Reportable Components: Titanium dioxide is classified by IARC as Group 2B a possible carcinogen based on animal studies (high concentration of dust may lead to lung cancer).

## Carcinogens Listing

<b>NTP</b>	No
<b>IARC</b>	Yes
<b>OSHA</b>	No

## SECTION 12: ECOLOGICAL INFORMATION

## Aquatic Toxicity

### Acetone

Toxicity to Fish LC50: 5,540 mg/l - 96 h

Toxicity to Algae EC50: Not Available

### n-Butyl alcohol

Toxicity to Fish LC50: 1,840 mg/l - 96 h

Toxicity to Algae EC50: Not Available

### Methyl amyl ketone

Toxicity to Fish LC50: 126-137 mg/l - 96 h

Toxicity to Algae EC50: 98.2 mg/l - 72 h

### Ethyl benzene



Toxicity to Fish LC50: 5.1 mg/l - 96 h


Toxicity to Algae EC50: 4.9 mg/l - 72 h

**Biodegradability** Readily biodegradable**Bioaccumulation** Not expected**SECTION 13: DISPOSAL CONSIDERATION**

Waste materials and empty container must be disposed of in accordance with applicable federal, state/provincial, and local regulations. Regulations may vary by location. Empty containers may hold hazardous vapors. Do not weld or expose to heat.

**SECTION 14: TRANSPORT INFORMATION****DOT Description**

UN1263, PAINT, 3, PGII

**SECTION 15: REGULATORY INFORMATION****TSCA Status** In compliance with TSCA inventory requirements for commercial purposes.**SARA 312 Regulated Chemical(s)** 1-Chloro-4-(trifluoromethyl)-benzene  
Acetone  
Titanium dioxide  
n-Butyl alcohol  
Methyl amyl ketone  
Ethyl benzene**SARA 313 Regulated Chemical(s)** n-Butyl alcohol  
Ethyl benzene**California Prop. 65**  **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**PA Right to know Chemical(s)** Acetone  
Titanium dioxide  
n-Butyl alcohol  
Methyl amyl ketone  
Ethyl benzene**NJ Right to know Chemical(s)** Acetone  
Titanium dioxide  
n-Butyl alcohol  
Ethyl benzene**MA Right to know Chemical(s)** 1-Chloro-4-(trifluoromethyl)-benzene  
Acetone  
Titanium dioxide  
n-Butyl alcohol  
Ethyl benzene



Canada Not Applicable.

Additional Regulatory Information Not Applicable.

### SECTION 16: OTHER INFORMATION

#### HMIS

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HEALTH	2*
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	X

#### HMIS® Hazardous Material Information System

HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risk, and 4 representing significant hazards or risks. HMIS was developed as a means of identifying and communicating workplace hazards associated with paints and coatings. Ratings are to be used with a fully implemented HMIS program. The workplace employer is responsible for determining the Personal Protection (PPE) code of this material.

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