



# SAFETY DATA SHEET

## SECTION 1 - Chemical Product and Company Information

Product Name: CRYSTALVAR 275 W/C CV SATIN Product Code: 310610-ST

Manufactured by:  
**Gemini Coatings**  
 2300 Holloway Drive  
 El Reno, OK 73036  
 800-262-5710

**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**

Product Use: A protective and/or decorative finish or accompanying product (reference label or product data sheet for more information).

Not recommended for: Any other use not detailed on product data sheet or label.

## SECTION 2 - Hazards Identification

### GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Dermal Toxicity	Acute Tox. 1	Dermal<=50mg/kg
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Skin sensitizer	1	Skin sensitizer
Carcinogen	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
Reproductive toxin	1B	Presumed, Based on experimental animals

### GHS Hazards

H225	Highly flammable liquid and vapour
H310	Fatal in contact with skin
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H350	May cause cancer
H360	May damage fertility or the unborn child

### GHS Precautions

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood
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/light/mixers/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P262	Do not get in eyes, on skin, or on clothing
P264	Wash any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
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
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see First Aid section on this label)
P322	Specific measures (see First Aid section on this label)
P361	Remove/Take off immediately all contaminated clothing
P363	Wash contaminated clothing before reuse
P302+P350	IF ON SKIN: Gently wash with soap and water
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously 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
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P370+P378	In case of fire: Use the NFPA Class B extinguisher for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Do not flush to sewer, watershed or waterway. Dispose of product in accordance with applicable local, county, state and federal regulations.

**Signal Word: Danger**



**SECTION 3 - Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Benzene, 1-chloro-4-(trifluoromethyl)- 98-56-6 25%			
Acetone 67-64-1 17%	1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m <sup>3</sup> TWA

Urea, polymer with formaldehyde, butylated 68002-19-7 7%			
Methyl Acetate 79-20-9 6%	200 ppm TWA; 610 mg/m3 TWA	250 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 610 mg/m3 TWA 250 ppm STEL; 760 mg/m3 STEL
Methyl n-amyl ketone 110-43-0 5%	100 ppm TWA; 465 mg/m3 TWA	50 ppm TWA	NIOSH: 100 ppm TWA; 465 mg/m3 TWA
1-Butanol 71-36-3 4%	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
Silica gel, precipitated, crystalline free 112926-00-8 2%			

#### SECTION 4 - First Aid Measures

**Inhalation:**

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

**Eye Contact:**

Flush eyes with lukewarm water for 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 out immediately. Drink 1 or 2 glasses of water to dilute. DO NOT induce vomiting. Contact physician or poison control center immediately.

#### SECTION 5 - Fire Fighting Measures

Alcohol Foam, CO2, Dry Chemical

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.

Oxidation may produce carbon and nitrogen oxides.

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 auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Use the National Fire Protection Association Class B extinguisher.

#### SECTION 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.

#### SECTION 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.

SECTION 8 - Exposure Controls/Personal Protection			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Benzene, 1-chloro-4-(trifluoromethyl)- 98-56-6			
Acetone 67-64-1	1000 ppm TWA; 2400 mg/m3 TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA
Urea, polymer with formaldehyde, butylated 68002-19-7			
Methyl Acetate 79-20-9	200 ppm TWA; 610 mg/m3 TWA	250 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 610 mg/m3 TWA 250 ppm STEL; 760 mg/m3 STEL
Methyl n-amyl ketone 110-43-0	100 ppm TWA; 465 mg/m3 TWA	50 ppm TWA	NIOSH: 100 ppm TWA; 465 mg/m3 TWA
1-Butanol 71-36-3	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
Silica gel, precipitated, crystalline free 112926-00-8			

Use local exhaust as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors.

**Respiratory Protection:**

If exposure exceeds TLV or PELs, 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.

**Eye Protection:**

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

**Hygienic Practices**

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

<b>SECTION 9 - Physical and Chemical Properties</b>
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<p><b>Vapor Density</b> Heavier Than Air</p> <p><b>Boiling range:</b> 56 - 152°C</p> <p><b>Freezing point:</b> N/A</p> <p><b>Flammability:</b> N/A</p> <p><b>Autoignition temperature:</b> 343°C</p> <p><b>Relative Density:</b> N/A</p> <p><b>Odor threshold:</b> N/A</p> <p><b>SPECIFIC GRAVITY</b> 1.0611</p>	<p><b>Evaporation Rate</b> Faster than Butyl Acetate</p> <p><b>Melting point:</b> N/A</p> <p><b>Flash point:</b> 32°F, 0°C</p> <p><b>Explosive Limits:</b> N/A</p> <p><b>Decomposition temperature:</b> N/A</p> <p><b>Vapor Pressure</b> N/A</p> <p><b>pH:</b> N/A</p> <p><b>Solubility:</b> N/A</p>
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<b>Partition coefficient (n-octanol/water):</b> N/A <b>Grams VOC less water:</b> N/A <b>% WT. VOLATILE (VOC)</b> 9.5362 <b>Lbs VOC/Gallon Solids</b> 2.1954 <b>SOLIDS VOL%</b> 38.3808 <b>SPREAD @ 1 MIL</b> 615.6275 <b>Appearance</b> Liquid <b>Physical State</b> Liquid <b>Coating VOC (g/l)</b> 199.0860 <b>Coating VOC (Lb/Gl)</b> 1.6614	<b>Viscosity:</b> N/A <b>% VOLUME VOLATILE (VOC)</b> 12.3362 <b>% Pig. by wt.</b> 2.2542 <b>VOLATILE WT%</b> 57.5035 <b>DENSITY (Lb/Gal)</b> 8.8359 <b>HAPS (lbs/gl)</b> 0.0320 <b>Odor</b> N/A <b>Material VOC (g/l)</b> 100.9704 <b>Material VOC (Lb/Gl)</b> 0.8426
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**SECTION 10 - Stability and Reactivity**

**Stability:** Stable under normal conditions.

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

**Conditions to avoid:** high heat, sparks, flames, static discharge.

**Hazardous Decomposition:** Oxidation may produce carbon and nitrogen oxides.  
Hazardous polymerization will not occur.

**SECTION 11 - Toxicological Information**

**Mixture Toxicity**

Dermal Toxicity LD50: 8mg/kg  
Inhalation Toxicity LC50: 82mg/L

**Component Toxicity**

- 98-56-6 Benzene, 1-chloro-4-(trifluoromethyl)-  
Oral LD50: 13 g/kg (Rat) Dermal LD50: 2 mL/kg (Rabbit) Inhalation LC50: 33 mg/L (Rat)
- 79-20-9 Methyl Acetate  
Oral LD50: 5 g/kg (Rat) Dermal LD50: 5 g/kg (Rabbit)
- 110-43-0 Methyl n-amyl ketone  
Oral LD50: 1,600 mg/kg (Rat) Dermal LD50: 13 mL/kg (Rabbit) Inhalation LC50: 2,000 - (Rat)
- 71-36-3 1-Butanol  
Oral LD50: 700 mg/kg (Rat) Dermal LD50: 3,402 mg/kg (Rabbit)

**Primary Routes of Entry:** Inhalation, Skin Contact, Eyes, Ingestion

**Skin:**

Skin contact can cause redness, dryness or rash. Prolonged contact can cause irritation, dry skin, cracks, and dermatitis.

**Ingestion:**

Can cause vomiting, nausea, diarrhea, and gastrointestinal irritation.

**Inhalation:**

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache possible unconsciousness and even asphyxiation. High vapor concentrations or prolonged breathing of lower concentrations may result in damage to the liver, kidneys, lungs and blood forming organs. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

**Eyes:**

Can cause irritation, redness, tearing and blurred vision.

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			N/A

## SECTION 12 - Ecological Information

### Ecological Information:

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

### Component Ecotoxicity

Benzene, 1-chloro-4-(trifluoromethyl)-	LC50 96 h Danio rerio 3 mg/L [semi-static] (ECHA) EC50 48 h Daphnia magna 3.68 mg/L (IUCLID)
Acetone	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L (EPA); LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static] (IUCLID); LC50 96 h Lepomis macrochirus 8300 mg/L (EPA) EC50 48 h Daphnia magna 10294 - 17704 mg/L [Static] (EPA); EC50 48 h Daphnia magna 12600 - 12700 mg/L (IUCLID)
Methyl Acetate	LC50 96 h Pimephales promelas 295 - 348 mg/L [flow-through] (EPA); LC50 96 h Brachydanio rerio 250 - 350 mg/L [static] (IUCLID) EC50 48 h Daphnia magna 1026.7 mg/L (IUCLID) EC50 72 h Desmodesmus subspicatus >120 mg/L (IUCLID)
Methyl n-amyl ketone	LC50 96 h Pimephales promelas 126 - 137 mg/L [flow-through] (EPA)
1-Butanol	LC50 96 h Pimephales promelas 1730 - 1910 mg/L [static] (IUCLID); LC50 96 h Pimephales promelas 1740 mg/L [flow-through] (IUCLID); LC50 96 h Lepomis macrochirus 100000 - 500000 µg/L [static] (EPA); LC50 96 h Pimephales promelas 1910000 µg/L [static] (EPA) EC50 48 h Daphnia magna 1983 mg/L (IUCLID); EC50 48 h Daphnia magna 1897 - 2072 mg/L [Static] (EPA) EC50 96 h Desmodesmus subspicatus >500 mg/L (IUCLID); EC50 72 h Desmodesmus subspicatus >500 mg/L (IUCLID)

## SECTION 13 - Disposal Considerations

Do not flush to sewer, watershed or waterway. Dispose of product in accordance with applicable local, county, state and federal regulations. See Section 8 for information on exposure control and necessary personal protective equipment.

## SECTION 14 - Transportation Information

Ship according to the Department of Transportation (DOT) 49 CFR regulations.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	PAINT	UN1263	II	3
	<b>Freight Class: 55</b>			

## SECTION 15 - Regulatory Information

### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains the following listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

98-56-6 Benzene, 1-chloro-4-(trifluoromethyl)-

**The following ingredients are listed in the TSCA Section 8(b) Inventory (Hydrated forms of chemical substances are exempt from the inventory as mixtures; the anhydrous chemical substances, however, are reportable for the Inventory):**

71-36-3 1-Butanol  
110-43-0 Methyl n-amyl ketone  
79-20-9 Methyl Acetate  
68002-19-7 Urea, polymer with formaldehyde, butylated  
67-64-1 Acetone  
98-56-6 Benzene, 1-chloro-4-(trifluoromethyl)-

### US CAA Section 112 Hazardous Air Pollutants (HAPs) List

- None

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical:**  
71-36-3 1-Butanol

**Hazardous Material Information System (HMIS)**

<b>HEALTH</b>	<input type="checkbox"/>	<b>3</b>	<b>HMIS &amp; NFPA Hazard Rating Legend</b> * = Chronic Health Hazard <b>0 = INSIGNIFICANT</b> <b>1 = SLIGHT</b> <b>2 = MODERATE</b> <b>3 = HIGH</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>3</b>	
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>1</b>	
<b>PERSONAL PROTECTION</b>	<input checked="" type="checkbox"/>	<b>X</b>	

**SECTION 16 - Disclaimer**

Date Prepared: 9/8/2023

Date revised: 2023-08-07

Reviewer Revision

THIS DOCUMENT SUPERSEDES 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. UNDER NO CIRCUMSTANCES SHALL GEMINI BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR ANY OTHER DAMAGES FROM ALLEGED NEGLIGENCE, BREACH OR WARRANTY, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY, ARISING OUT OF THE USE OR HANDLING OF THIS PRODUCT. THE SOLE REMEDY OF THE BUYER AND THE SOLE LIABILITY OF GEMINI FOR ANY CLAIMS SHALL BE LIMITED TO THE BUYER'S PURCHASE PRICE OF THE PRODUCT WHICH IS THE SUBJECT OF THE CLAIM OR THE AMOUNT ACTUALLY PAID FOR SUCH PRODUCT, WHICHEVER IS LESS. TECHNICAL ADVICE FURNISHED BY GEMINI SHALL NOT CONSTITUTE AN EXPRESS WARRANTY, WHICH IS EXPRESSLY DISCLAIMED. ALL TECHNICAL ADVICE GIVEN IS ACCEPTED AT THE RISK OF THE BUYER.