



SAFETY DATA SHEET

SECTION 1 - Chemical Product and Company Information

Product Name: MIRAVAR 550 OPAQUE CV SLR WHT Product Code: 310704-00GP

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) Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Skin corrosive	2	
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Mutagen	1B	
Carcinogen	1A	Known to produce heritable mutations in human germ cells Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Reproductive toxin	1A	
		Known Human Carcinogen Based on human evidence
		Based on human evidence

GHS Hazards

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H318	Causes serious eye damage
H340	May cause genetic defects
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
P264	Wash any exposed skin thoroughly after handling
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)
P362	Take off contaminated clothing and wash before reuse
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
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
Talc 14807-96-6 30%		2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)	NIOSH: 2 mg/m ³ TWA (containing no Asbestos and <1% Quartz, respirable dust)
Ethyl alcohol 64-17-5 11%	1000 ppm TWA; 1900 mg/m ³ TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m ³ TWA
Xylenes (o-, m-, p- isomers) 1330-20-7 8%	100 ppm TWA; 435 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	
TOLUENE 108-88-3 5% - 10%	200 ppm TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
Titanium dioxide 13463-67-7 7%	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	NIOSH: 2.4 mg/m ³ TWA (CIB 63, fine); 0.3 mg/m ³ TWA (CIB 63, ultrafine, including engineered nanoscale)
Isobutyl alcohol 78-83-1 4%	100 ppm TWA; 300 mg/m ³ TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 150 mg/m ³ TWA

Quartz 14808-60-7 0.7%	50 µg/m ³ TWA (listed under Respirable crystalline silica)	0.025 mg/m ³ TWA (respirable particulate matter)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)
MINERAL SPIRITS 8052-41-3 0.2%	500 ppm TWA; 2900 mg/m ³ TWA	100 ppm TWA	NIOSH: 350 mg/m ³ TWA 1800 mg/m ³ Ceiling (15 min)
Solvent naphtha, petroleum, light aromatic 64742-95-6 0.1%			

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
Talc 14807-96-6		2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)	NIOSH: 2 mg/m ³ TWA (containing no Asbestos and <1% Quartz, respirable dust)
Ethyl alcohol 64-17-5	1000 ppm TWA; 1900 mg/m ³ TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m ³ TWA
Xylenes (o-, m-, p- isomers) 1330-20-7	100 ppm TWA; 435 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	
TOLUENE 108-88-3	200 ppm TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
Titanium dioxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	NIOSH: 2.4 mg/m ³ TWA (CIB 63, fine); 0.3 mg/m ³ TWA (CIB 63, ultrafine, including engineered nanoscale)
Isobutyl alcohol 78-83-1	100 ppm TWA; 300 mg/m ³ TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 150 mg/m ³ TWA
Quartz 14808-60-7	50 µg/m ³ TWA (listed under Respirable crystalline silica)	0.025 mg/m ³ TWA (respirable particulate matter)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)
MINERAL SPIRITS 8052-41-3	500 ppm TWA; 2900 mg/m ³ TWA	100 ppm TWA	NIOSH: 350 mg/m ³ TWA 1800 mg/m ³ Ceiling (15 min)
Solvent naphtha, petroleum, light aromatic 64742-95-6			

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.

SECTION 9 - Physical and Chemical Properties

<p>Vapor Density Heavier Than Air</p> <p>Boiling range: 78 - 3000°C</p> <p>Freezing point: N/A</p> <p>Flammability: N/A</p> <p>Autoignition temperature: 363°C</p> <p>Relative Density: N/A</p>	<p>Evaporation Rate Faster than Butyl Acetate</p> <p>Melting point: N/A</p> <p>Flash point: 55°F, 13°C</p> <p>Explosive Limits: N/A</p> <p>Decomposition temperature: N/A</p> <p>Vapor Pressure N/A</p>
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<p>Odor threshold: N/A</p> <p>SPECIFIC GRAVITY 1.3059</p> <p>Partition coefficient (n-octanol/water): N/A</p> <p>Grams VOC less water: N/A</p> <p>% WT. VOLATILE (VOC) 33.1711</p> <p>Lbs VOC/Gallon Solids 7.5333</p> <p>SOLIDS VOL% 47.8809</p> <p>SPREAD @ 1 MIL 768.0089</p> <p>Appearance Liquid</p> <p>Physical State Liquid</p> <p>Coating VOC (g/l) 432.2293</p> <p>Coating VOC (Lb/Gl) 3.6070</p>	<p>pH: N/A</p> <p>Solubility: N/A</p> <p>Viscosity: N/A</p> <p>% VOLUME VOLATILE (VOC) 52.1191</p> <p>% Pig. by wt. 39.8040</p> <p>VOLATILE WT% 33.1711</p> <p>DENSITY (Lb/Gal) 10.8740</p> <p>HAPS (lbs/gl) 1.7839</p> <p>Odor N/A</p> <p>Material VOC (g/l) 432.2293</p> <p>Material VOC (Lb/Gl) 3.6070</p>
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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

Inhalation Toxicity LC50: 62mg/L

Component Toxicity

- | | |
|------------|---|
| 1330-20-7 | Xylenes (o-, m-, p- isomers)
Oral LD50: 3,500 mg/kg (Rat) Dermal LD50: 4,350 mg/kg (Rabbit) Inhalation LC50: 29 mg/L |
| 108-88-3 | TOLUENE
Oral LD50: 2,600 mg/kg (Rat) Inhalation LC50: 13 mg/L (Rat) |
| 78-83-1 | Isobutyl alcohol
Oral LD50: 2,460 mg/kg (Rat) Dermal LD50: 3,400 mg/kg (Rabbit) Inhalation LC50: 7 mg/L |
| 64742-95-6 | Solvent naphtha, petroleum, light aromatic
Dermal LD50: 2,000 mg/kg (Rabbit) Inhalation LC50: 3,400 ppm (Rat) |

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>
13463-67-7	Titanium dioxide	7%	Titanium dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
14808-60-7	Quartz	0.7%	Quartz: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
64-17-5	Ethyl alcohol	11%	Ethyl alcohol: IARC: Human carcinogen OSHA: listed
64742-95-6	Solvent naphtha, petroleum, light aromatic	0.1%	Solvent naphtha, petroleum, light aromatic: EU REACH: Present (P)
8052-41-3	MINERAL SPIRITS	0.2%	MINERAL SPIRITS: EU REACH: Present (P)

SECTION 12 - Ecological Information

Ecological Information:

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

Component Ecotoxicity

Talc	LC50 96 h Brachydanio rerio >100 g/L [semi-static]
Ethyl alcohol	LC50 96 h Oncorhynchus mykiss 12.0 - 16.0 mg/L [static] (EPA); LC50 96 h Pimephales promelas >100 mg/L [static] (EPA); LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through] (EPA) LC50 48 h Daphnia magna 9268 - 14221 mg/L (IUCLID); EC50 48 h Daphnia magna 2 mg/L [Static] (EPA)
Xylenes (o-, m-, p- isomers)	LC50 96 h Pimephales promelas 13.4 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L (IUCLID); LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L [flow-through] (EPA); LC50 96 h Lepomis macrochirus 19 mg/L (EPA); LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L [static] (EPA); LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L [static] (EPA); LC50 96 h Cyprinus carpio 780 mg/L [semi-static] (EPA); LC50 96 h Cyprinus carpio >780 mg/L (IUCLID); LC50 96 h Poecilia reticulata 30.26 - 40.75 mg/L [static] (EPA) EC50 48 h water flea 3.82 mg/L; LC50 48 h Gammarus lacustris 0.6 mg/L
TOLUENE	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old, EPA); LC50 96 h Pimephales promelas 12.6 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static] (EPA); LC50 96 h Lepomis macrochirus 11.0 - 15.0 mg/L [static] (EPA); LC50 96 h Oryzias latipes 54 mg/L [static] (EPA); LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static] (EPA); LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static] (EPA) EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [Static] (EPA); EC50 48 h Daphnia magna 11.5 mg/L (IUCLID) EC50 96 h Pseudokirchneriella subcapitata >433 mg/L (IUCLID); EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] (EPA)

Isobutyl alcohol

LC50 96 h Pimephales promelas 375 mg/L [static] (fry, IUCLID); LC50 96 h Pimephales promelas 1370 - 1670 mg/L [flow-through] (EPA); LC50 96 h Lepomis macrochirus 1480 - 1730 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 1120 - 1520 mg/L [flow-through] (EPA) EC50 48 h Daphnia magna 1300 mg/L (IUCLID); EC50 48 h Daphnia magna 1070 - 1933 mg/L [Static] (EPA)

Solvent naphtha, petroleum, light aromatic

LC50 96 h Oncorhynchus mykiss 9.22 mg/L (IUCLID) EC50 48 h Daphnia magna 6.14 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
Freight Class: 55				

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.

- 13463-67-7 Titanium dioxide
- 108-88-3 TOLUENE
- 64-17-5 Ethyl alcohol

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):

- 64742-95-6 Solvent naphtha, petroleum, light aromatic
- 8052-41-3 MINERAL SPIRITS
- 14808-60-7 Quartz
- 6422-86-2 1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
- 78-83-1 Isobutyl alcohol
- 13463-67-7 Titanium dioxide
- 108-88-3 TOLUENE
- 1330-20-7 Xylenes (o-, m-, p- isomers)
- 64-17-5 Ethyl alcohol
- 14807-96-6 Talc

US CAA Section 112 Hazardous Air Pollutants (HAPs) List

- 108-88-3 TOLUENE
- 1330-20-7 Xylenes (o-, m-, p- isomers)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical:

- 108-88-3 TOLUENE
- 1330-20-7 Xylenes (o-, m-, p- isomers)

Hazardous Material Information System (HMIS)

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

SECTION 16 - Disclaimer

Date Prepared: 9/8/2023

Date revised: 2023-08-21

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.