

SAFETY DATA SHEET

SECTION 1 - Chemical Product and Company Information

Product Name: MIRAVAR + 550 OPAQ CV SATN WHT Product Code: 310745-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					
HS Ratin	igs:				
Flamma	able liquid	2	Flash point < 23	°C and initial boiling point > 35°C (95°F)	
Skin co		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		
Mutagen 1B		1B	Known to produce heritable mutations in human germ cellsSubcategory 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		
Carcino	ogen	1A	Known Human Carcinogen Based on human evidence		
Reproductive toxin 1A		Based on huma			
HS Haza	rds		GHS Prec	autions	
1225 1316 1318	vapour Causes mi	imable liquid and Id skin irritation rious eye damage	P201 P202	Obtain special instructions before use Do not handle until all safety precautions have been read and understood	
1340 1350		genetic defects	P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking	
1360		May damage fertility or the		Keep container tightly closed	
	unborn chi	ld	P240	Ground/bond container and receiving equipment	

P241

P242

P243

P280

P281

P310

P303+P361+P35

Use explosion-proof

static discharge

or doctor/physician

required

Use only non-sparking tools

ent

electrical/ventilating/light/mixers/equipm

Take precautionary measures against

Use personal protective equipment as

Immediately call a POISON CENTER

IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing.

Rinse skin with water/shower

Wear protective gloves/protective clothing/eye protection/face protection

3

P305+P351+P33 8	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.



	SECTION 3 - Composition/In	formation on Ingredients	
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Titanium dioxide 13463-67-7 20%	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	NIOSH: 2.4 mg/m3 TWA (CIB 63, fine); 0.3 mg/m3 TWA (CIB 63, ultrafine, including engineered nanoscale)
n-Butyl acetate 123-86-4 18%	150 ppm TWA; 710 mg/m3 TWA	150 ppm STEL (listed under Butyl acetates, all isomers) 50 ppm TWA (listed under Butyl acetates, all isomers)	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL
Ethyl alcohol 64-17-5 12%	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Urea, polymer with formaldehyde, butylated 68002-19-7 6%			
1-Butanol 71-36-3 5%	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 3%			
Naphtha, petroleum, hydrotreated heavy 64742-48-9 1%			
Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1 0.3%			

MINERAL SPIRITS	500 ppm TWA; 2900 mg/m3	100 ppm TWA	NIOSH: 350 mg/m3
8052-41-3	TWA		TWA
0.1%			1800 mg/m3 Ceiling
			(15 min)

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. <u>DO NOT</u> 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						
Titanium dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	NIOSH: 2.4 mg/m3 TWA (CIB 63, fine); 0.3 mg/m3 TWA (CIB 63, ultrafine, including engineered nanoscale)			

123-86-4 TWA B 50 B		150 ppm STEL (listed under Butyl acetates, all isomers) 50 ppm TWA (listed under Butyl acetates, all isomers)	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL
Ethyl alcohol 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Urea, polymer with formaldehyde, butylated 68002-19-7			
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			
Naphtha, petroleum, hydrotreated heavy 64742-48-9			
Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1			
MINERAL SPIRITS 8052-41-3	500 ppm TWA; 2900 mg/m3 TWA	100 ppm TWA	NIOSH: 350 mg/m3 TWA 1800 mg/m3 Ceiling (15 min)

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 googles and face shield if there is a likelihood of contact with eyes.

Hygenic 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				
Vapor Density Heavier Than Air	Evaporation Rate Faster than Butyl Acetate			
Boiling range: 78 - 3000°C	Melting point: N/A			
Freezing point: N/A	Flash point: 55°F,13°C			
Flammability: N/A	Explosive Limits: N/A			
Autoignition temperature: 343°C	Decomposition temperature: N/A			
Relative Density: N/A	Vapor Pressure N/A			
Odor threshold: N/A	pH: N/A			
SPECIFIC GRAVITY 1.1675	Solubility: N/A			
Partition coefficient (n- N/A octanol/water):	Viscosity: N/A			
Grams VOC less water: N/A	% VOLUME VOLATILE (VOC) 55.9319			

% WT. VOLATILE (VOC) 40.0184 Lbs VOC/Gallon Solids 8.8306 SOLIDS VOL% 44.0586 SPREAD @ 1 MIL 706.6994 Appearance Liquid Physical State Liquid Coating VOC (g/l) 466.2585 Coating VOC (Lb/GI) 3.8910

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: 343mg/L

Component Toxicity

	y second s
123-86-4	n-Butyl acetate
	Inhalation LC50: 390 ppm (Rat)
71-36-3	1-Butanol
	Oral LD50: 700 mg/kg (Rat) Dermal LD50: 3,402 mg/kg (Rabbit)
64742-48-9	Naphtha, petroleum, hydrotreated heavy
	Dermal LD50: 3,160 mg/kg (Rabbit)
64742-82-1	Naphtha, petroleum, hydrodesulfurized heavy
	Oral LD50: 5,000 mg/kg (Rat) Dermal LD50: 3,160 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 dermititis.

Ingestion:

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

Inhalation:

Excessive inhalation of vapors can cause nasal and repiratory irritation, dizziness, weakness, fatigue, nausea, headache possible unconsciousness and even asphyxiation. High vapor concentrations or porlonged 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). CAS Number Description % Weight Carcinogen Rating

13463-67-7	Titanium dioxide	20%	Titanium dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
64-17-5	Ethyl alcohol	12%	Ethyl alcohol: IARC: Human carcinogen OSHA: listed
64742-48-9	Naphtha, petroleum, hydrotreated heavy	1%	Naphtha, petroleum, hydrotreated heavy: EU REACH: Present (P)
64742-82-1	Naphtha, petroleum, hydrodesulfurized heavy	0.3%	Naphtha, petroleum, hydrodesulfurized heavy: EU REACH: Present (P)
8052-41-3	MINERAL SPIRITS	0.1%	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.

	SECTION 12 Disposal Considerations
Naphtha, petroleum, hydrotreated heavy	LC50 96 h Pimephales promelas 2200 mg/L (IUCLID)
	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)
Ethyl alcohol 1-Butanol	LC50 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/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) LC50 96 h Pimephales promelas 1730 - 1910 mg/L [static] (IUCLID); LC50 96 h
Component Ecotoxicity n-Butyl acetate	LC50 96 h Lepomis macrochirus 100 mg/L [static] (EPA); LC50 96 h Pimephales promelas 17 - 19 mg/L [flow-through] (EPA) EC50 72 h Desmodesmus subspicatus 674.7 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.						
Agency						
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 follosing 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.

64-17-5 Ethyl alcohol

13463-67-7 Titanium dioxide

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):

8052-41-3 MINERAL SPIRITS 64742-82-1 Naphtha, petroleum, hydrodesulfurized heavy 64742-48-9 Naphtha, petroleum, hydrotreated heavy 71-36-3 1-Butanol 68002-19-7 Urea, polymer with formaldehyde, butylated 64-17-5 Ethyl alcohol 123-86-4 n-Butyl acetate 13463-67-7 Titanium dioxide

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)



HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH

SECTION 16 - Disclaimer

Date Prepared: 9/14/2023

Date revised: 2023-09-11 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 SOLELIABILITY 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.