

SAFETY DATA SHEET

SECTION 1 - Chemical Product and Company Information

Product Name: MIRAVAR 550 OPQ CV SATIN TB Product Code: 310695-ST

Manufactured by: 24- Hour Emergency (Spill, Leak, Exposure or Accident):

Gemini Coatings INFOTRAC 800-535-5053

2300 Holloway Drive Outside USA, Call Collect 1-352-323-3500

El Reno, OK 73036 800-262-5710

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. 3	Dermal>200+<=1000mg/kg
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	1	Skin sensitizer
Mutagen	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
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1A	Based on human evidence

GHS Hazards	
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H225	Highly flammable liquid and
	vapour
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin
	reaction
H319	Causes serious eye irritation
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the
	unborn child

GHS Precautions

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/equipm ent			
P242	Use only non-sparking tools			
P243	Take precautionary measures against static discharge			
P261	Avoid breathing dust/fume/gas/mist/vapours/spray			
P264	Wash any exposed skin thoroughly after handling			
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
P312	Call a POISON CENTER or
P321	doctor/physician if you feel unwell Specific treatment (see First Aid
P322	section on this label) Specific measures (see First Aid section on this label)
P361	Remove/Take off immediately all
P362	contaminated clothing Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P35 3	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	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
n-Butyl acetate 123-86-4 22%	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
Acetone 67-64-1 17%	1000 ppm TWA; 2400 mg/m3 TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA

Ethyl alcohol 64-17-5 11%	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 5%			
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
n-Amyl acetate 628-63-7 3%	100 ppm TWA; 525 mg/m3 TWA	100 ppm STEL (listed under Pentyl acetate, all isomers) 50 ppm TWA (listed under Pentyl acetate, all isomers)	NIOSH: 100 ppm TWA; 525 mg/m3 TWA
2-Methylbutyl acetate 624-41-9 2%		100 ppm STEL (listed under Pentyl acetate, all isomers) 50 ppm TWA (listed under Pentyl acetate, all isomers)	
Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1 0.4%			

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
n-Butyl acetate 123-86-4	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
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
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			
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
n-Amyl acetate 628-63-7	100 ppm TWA; 525 mg/m3 TWA	100 ppm STEL (listed under Pentyl acetate, all isomers) 50 ppm TWA (listed under Pentyl acetate, all isomers)	NIOSH: 100 ppm TWA; 525 mg/m3 TWA
2-Methylbutyl acetate 624-41-9		100 ppm STEL (listed under Pentyl acetate, all isomers) 50 ppm TWA (listed under Pentyl acetate, all isomers)	
Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1			

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

Boiling range: 56 - 152°C

Freezing point: N/A

Flammability: N/A

Autoignition temperature: 360°C

Relative Density: N/A

Odor threshold: N/A

SPECIFIC GRAVITY 0.9325

Partition coefficient (n- N/A

octanol/water):

Grams VOC less water: N/A

% WT. VOLATILE (VOC) 46.3096

Lbs VOC/Gallon Solids 12.6224

SOLIDS VOL% 28.4866

SPREAD @ 1 MIL 456.9245

Appearance Liquid

Physical State Liquid

Coating VOC (g/l) 542.0522

Coating VOC (Lb/GI) 4.5235

Evaporation Rate Faster than Butyl

Acetate

Melting point: N/A

Flash point: 32°F,0°C

Explosive Limits: N/A

Decomposition temperature: N/A

Vapor Pressure N/A

pH: N/A

Solubility: N/A

Viscosity: N/A

% VOLUME VOLATILE (VOC) 51.0026

% Pig. by wt. 0.7112

VOLATILE WT% 63.7733

DENSITY (Lb/Gal) 7.7645

HAPS (lbs/gl) 0.0058

Odor N/A

Material VOC (g/l) 430.8729

Material VOC (Lb/GI) 3.5957

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: 227mg/kg Inhalation Toxicity LC50: 203mg/L

Component Toxicity

123-86-4 n-Butyl acetate

Inhalation LC50: 390 ppm (Rat)

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)

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).

<u>CAS Number</u> <u>Description</u> <u>% Weight</u> <u>Carcinogen Rating</u>

64-17-5 Ethyl alcohol 11% Ethyl alcohol: IARC: Human

carcinogen OSHA: listed

64742-82-1 Naphtha, petroleum, 0.4% Naphtha, petroleum,

hydrodesulfurized heavy: 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

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)

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)

Ethyl alcohol 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)

Methyl n-amyl ketone LC50 96 h Pimephales promelas 126 - 137 mg/L [flow-through] (EPA)

n-Amyl acetate LC50 96 h Lepomis macrochirus 650 mg/L [static]

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 Proper Shipping Name UN Number Packing Group Hazard Class

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

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):

64742-82-1 Naphtha, petroleum, hydrodesulfurized heavy

624-41-9 2-Methylbutyl acetate

628-63-7 n-Amyl acetate

110-43-0 Methyl n-amyl ketone

68002-19-7 Urea, polymer with formaldehyde, butylated

64-17-5 Ethyl alcohol

67-64-1 Acetone

123-86-4 n-Butyl acetate

US CAA Section 112 Hazardous Air Pollutants (HAPs) List

- None

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

- None

Hazardous Material Information System (HMIS)



SECTION 16 - Disclaimer

Date Prepared: 9/8/2023 Date revised: 2023-09-08

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.