



SAFETY DATA SHEET

SECTION 1 - Chemical Product and Company Information

Product Name: 550 VOC WATER CLEAR LACQUER SEALER Product Code: 200-0013

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	1	Flash point < 23°C and initial boiling point ≤ 35°C (95°F)
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Mutagen	1B	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
Carcinogen	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
Reproductive toxin	1A	Based on human evidence

GHS Hazards

H224	Extremely flammable liquid and vapour
H316	Causes mild skin irritation
H319	Causes serious eye irritation
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
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

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
Acetone 67-64-1 50% - 60%	1000 ppm TWA; 2400 mg/m3 TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA
n-Butyl acetate 123-86-4 10% - 20%	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
Nitrocellulose 9004-70-0 5% - 10%			
TOLUENE 108-88-3 5% - 10%	200 ppm TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL
DOA PLASTICIZER 103-23-1 1% - 5%			
Isopropyl alcohol 67-63-0 1% - 5%	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL
Propylene glycol monomethyl ether acetate 108-65-6 1% - 5%			

ZINC STEARATE 557-05-1 1% - 5%	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA (inhalable particulate matter, listed under Stearates); 3 mg/m3 TWA (respirable particulate matter, listed under Stearates)	NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1 0.1% - 1.0%			
Ethylbenzene 100-41-4 0.1% - 1.0%	100 ppm TWA; 435 mg/m3 TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL

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
Acetone 67-64-1	1000 ppm TWA; 2400 mg/m ³ TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m ³ TWA
n-Butyl acetate 123-86-4	150 ppm TWA; 710 mg/m ³ 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/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL
Nitrocellulose 9004-70-0			
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
DOA PLASTICIZER 103-23-1			
Isopropyl alcohol 67-63-0	400 ppm TWA; 980 mg/m ³ TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m ³ TWA 500 ppm STEL; 1225 mg/m ³ STEL
Propylene glycol monomethyl ether acetate 108-65-6			
ZINC STEARATE 557-05-1	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA (inhalable particulate matter, listed under Stearates); 3 mg/m ³ TWA (respirable particulate matter, listed under Stearates)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1			
Ethylbenzene 100-41-4	100 ppm TWA; 435 mg/m ³ TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL

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: 34 - 214°C</p> <p>Freezing point: N/A</p> <p>Flammability: N/A</p> <p>Autoignition temperature: 170°C</p> <p>Relative Density: N/A</p> <p>Odor threshold: N/A</p> <p>SPECIFIC GRAVITY 0.8929</p> <p>Partition coefficient (n- N/A octanol/water):</p> <p>Grams VOC less water: N/A</p> <p>% WT. VOLATILE (VOC) 24.9945</p> <p>Lbs VOC/Gallon Solids 10.7829</p> <p>SOLIDS VOL% 17.2352</p> <p>SPREAD @ 1 MIL 276.4527</p> <p>Appearance Colored Liquid</p> <p>Physical State Liquid</p> <p>Coating VOC (g/l) 519.6488</p> <p>Coating VOC (Lb/GI) 4.3366</p>	<p>Evaporation Rate Faster than Butyl Acetate</p> <p>Melting point: N/A</p> <p>Flash point: 32°F, 0°C</p> <p>Explosive Limits: N/A</p> <p>Decomposition temperature: N/A</p> <p>Vapor Pressure N/A</p> <p>pH: N/A</p> <p>Solubility: N/A</p> <p>Viscosity: N/A</p> <p>% VOLUME VOLATILE (VOC) 25.6206</p> <p>% Pig. by wt. 2.0925</p> <p>VOLATILE WT% 75.8934</p> <p>DENSITY (Lb/Gal) 7.4355</p> <p>HAPS (lbs/gI) 0.4905</p> <p>Odor N/A</p> <p>Material VOC (g/l) 222.6995</p> <p>Material VOC (Lb/GI) 1.8585</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: 64mg/L

Component Toxicity

108-88-3 TOLUENE
Oral LD50: 2,600 mg/kg (Rat) Inhalation LC50: 13 mg/L (Rat)

67-63-0 Isopropyl alcohol
Oral LD50: 1,870 mg/kg (Rat) Dermal LD50: 4,059 mg/kg (Rabbit)

100-41-4 Ethylbenzene
Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (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>
100-41-4	Ethylbenzene	0.1% - 1.0%	Ethylbenzene: IARC: Possible human carcinogen OSHA: listed
64742-82-1	Naphtha, petroleum, hydrodesulfurized heavy	0.1% - 1.0%	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

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)
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)
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)
DOA PLASTICIZER	LC50 96 h Lepomis macrochirus 0.48 - 0.85 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 0.48 - 0.85 mg/L [static] (EPA); LC50 96 h Pimephales promelas 0.48 - 0.85 mg/L [static] (EPA) EC50 48 h Daphnia magna >1.6 mg/L (IUCLID) EC50 72 h Desmodesmus subspicatus >500 mg/L (IUCLID)
Isopropyl alcohol	LC50 96 h Pimephales promelas 9640 mg/L [flow-through] (IUCLID); LC50 96 h Pimephales promelas 11130 mg/L [static] (IUCLID); LC50 96 h Lepomis macrochirus >1400000 µg/L (EPA) EC50 48 h Daphnia magna 13299 mg/L (IUCLID) EC50 96 h Desmodesmus subspicatus >1000 mg/L (IUCLID); EC50 72 h Desmodesmus subspicatus >1000 mg/L (IUCLID)
Propylene glycol monomethyl ether acetate	LC50 96 h Pimephales promelas 161 mg/L [static] (IUCLID) EC50 48 h Daphnia magna >500 mg/L (IUCLID)

Ethylbenzene

LC50 96 h Oncorhynchus mykiss 11.0 - 18.0 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 4.2 mg/L [semi-static] (EPA); LC50 96 h Pimephales promelas 7.55 - 11 mg/L [flow-through] (EPA); LC50 96 h Lepomis macrochirus 32 mg/L [static] (EPA); LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L [static] (EPA); LC50 96 h Poecilia reticulata 9.6 mg/L [static] (EPA)
EC50 48 h Daphnia magna 1.8 - 2.4 mg/L (IUCLID)
EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L (IUCLID); EC50 96 h Pseudokirchneriella subcapitata >438 mg/L (IUCLID); EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L [static] (EPA); EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L [static] (EPA)

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.

- 100-41-4 Ethylbenzene
- 108-88-3 TOLUENE

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):

- 100-41-4 Ethylbenzene
- 64742-82-1 Naphtha, petroleum, hydrodesulfurized heavy
- 557-05-1 ZINC STEARATE
- 108-65-6 Propylene glycol monomethyl ether acetate
- 67-63-0 Isopropyl alcohol
- 103-23-1 DOA PLASTICIZER
- 108-88-3 TOLUENE
- 9004-70-0 Nitrocellulose
- 123-86-4 n-Butyl acetate
- 67-64-1 Acetone

US CAA Section 112 Hazardous Air Pollutants (HAPs) List

- 100-41-4 Ethylbenzene
- 108-88-3 TOLUENE

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

- 100-41-4 Ethylbenzene
- 67-63-0 Isopropyl alcohol
- 108-88-3 TOLUENE

Hazardous Material Information System (HMIS)

HEALTH	<input type="checkbox"/>	3	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"/>	3	
PERSONAL PROTECTION	<input checked="" type="checkbox"/>		

Date Prepared: 2/26/2020

Date revised: 2020-02-26

Reviewer Revision 3

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