



# SAFETY DATA SHEET

## Forti-Lock™ SG Gray Liquid Flashing Resin Forti-Lock™ WG Gray Liquid Flashing Resin

Rev. Date: 24 Aug 2020

### SECTION 1. PRODUCT & COMPANY INFORMATION

**Product Name:** Forti-Lock™ SG Gray Liquid Flashing Resin  
Forti-Lock™ WG Gray Liquid Flashing Resin

**Recommended Use:** PMMA liquid membrane for roofing recovery

**Manufacturer:** SEAMAN CORPORATION  
1000 Venture Blvd.  
Wooster, OH 44691 USA  
PHONE: (330) 262-1111  
www.seamancorp.com

**24-HR EMERGENCY (Chemtrec)**  
**U.S./Canada: (800) 424-9300**  
**International: +1 703 527-3887**

### SECTION 2. HAZARDS IDENTIFICATION

**Pictograms:**



**Signal Word: DANGER**

**GHS Classification:**

Flammable Liquid – Category 2  
Skin Irritation – Category 2  
Skin Sensitization - Category 1  
Germ Cell Mutagenicity – Category 1 (WG ONLY)  
Carcinogenicity - Category 1B  
Toxic to Reproduction – Category 2  
Specific Target Organ Toxicity (Single Exposure) – Category 3 (Respiratory irritation)

**Hazard Statements:**

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H340 May cause genetic defects. (WG ONLY)  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H335 May cause respiratory irritation.

**Prevention:**

P201 Obtain special instructions before use.

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P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing vapors.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, eye protection, and face protection.

**Response:**

P302 + P352	IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical attention.
P312	Call a POISON CENTER or doctor if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical attention.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use dry chemical, CO <sub>2</sub> , or foam to extinguish.

**Storage:**

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P235	Keep cool.
P405	Store locked up.

**Disposal:**

P501	Dispose of contents and container in accordance with local, regional, and national regulations.
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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Components</u>	<u>CAS No.</u>	<u>% by weight</u>
Methyl methacrylate	80-62-6	10-25
2-Ethylhexyl acrylate	103-11-7	10-25
Titanium dioxide	13463-67-7	3-5
Silica, amorphous, fumed, cryst.-free	112945-52-5	1-3
Poly(oxy-1,2-ethanediy), $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -[(1-oxo-2-propen-1-yl)oxy]-	26570-48-9	0.3-1
N-methyl-2-pyrrolidone	872-50-4	0.3-1
Cobalt bis(2-ethylhexanoate)	136-52-7	0.3-1
Stoddard solvent (WG ONLY)	8052-41-3	<0.3

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**SECTION 4. FIRST AID MEASURES**

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<b>Inhalation:</b>	Move to fresh air. Seek medical attention if symptoms persist.
<b>Skin Contact:</b>	Wash exposed skin with soap and water. Do not use solvents or thinners. If irritation develops or persists, seek medical attention.
<b>Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
<b>Ingestion:</b>	Seek medical attention. Do not induce vomiting.

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**SECTION 5. FIRE FIGHTING MEASURES**

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<b>Flammable Properties:</b>	Material is highly flammable. Likely to catch fire from nearby spark. Static charge may accumulate.
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**Suitable Extinguishing Media:** alcohol resistant foam, CO2, powders, water spray

**Products of Combustion:** Fire can produce dense black smoke. Carbon monoxide and carbon dioxide may be produced from decomposition.

**Protection of Firefighters:** Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear. No special procedures are expected to be necessary for this product.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions:** Use personal protection recommended in Section 8.

**Environmental Precautions:** No special procedures necessary

**Methods for Containment:** No special procedures necessary

**Methods for Clean-up:** No special procedures necessary

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**SECTION 7. HANDLING AND STORAGE**

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**Handling:** Use protective equipment recommended in Section 8. Use only in well ventilated area. Eliminate any source of ignition. Ground and bond all equipment when handling. Any electrical equipment used around vapors should meet the applicable requirements of the local electrical code. Wash hands after contact.

**Storage:** Keep away from oxidizing agents and strongly acid or strongly alkaline materials. Avoid heating or direct sunlight. Keep container closed until ready for use.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**EXPOSURE GUIDELINES**

COMPONENT	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	COMMENTS
Methyl methacrylate (80-62-6)	100 ppm (410 mg/m <sup>3</sup> ) TWA	50 ppm (205 mg/m <sup>3</sup> ) TWA; 100 ppm (410 mg/m <sup>3</sup> ) STEL-C	100 ppm (410 mg/m <sup>3</sup> ) TWA	
2-Ethylhexyl acrylate (103-11-7)	-	-	-	None established
Titanium Dioxide (13463-67-7)	15 mg/m <sup>3</sup> TWA Total dust	10 mg/m <sup>3</sup> TWA	-	
Silica, amorphous, fumed, cryst.-free (112945-52-5)	20 mppcf (80 mg/m <sup>3</sup> /%SiO <sub>2</sub> )	-	6 mg/m <sup>3</sup> TWA; 3000 mg/m <sup>3</sup> IDLH	
Poly(oxy-1,2-ethanediyl), α-(1-oxo-2- propen-1-yl)-ω-[(1-oxo-2-propen-1- yl)oxy]-	-	-	-	None established
N-methyl-2-pyrrolidone (872-50-4)	-	-	-	AIHA WEEL 10 ppm TWA
Cobalt bis(2-ethylhexanoate) (136-52-7)	-	0.02 mg/m <sup>3</sup> TWA as Co	-	
Stoddard solvent (8052-41-3) (WG ONLY)	500 ppm (2900 mg/m <sup>3</sup> ) TWA	100 ppm (525 mg/m <sup>3</sup> ) TWA	350 mg/m <sup>3</sup> TWA (10 h); CEIL 1800 mg/m <sup>3</sup> (15 min)	

**PERSONAL PROTECTIVE EQUIPMENT**

**Engineering Controls:** Provide local exhaust ventilation  
**Eye/Face:** Wear safety glasses  
**Skin:** Wear chemical resistant protective gloves  
**Respiratory:** If exposure limits are exceeded, NIOSH approved respiratory protection must be provided  
**General Hygiene:** Wash hands with soap and water after handling material.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	liquid	<b>Odor:</b>	Strong solvent
<b>Odor threshold:</b>	Not available	<b>pH:</b>	Not available
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point:</b>	Not available
<b>Flash Point:</b>	2-22°C (35-72°F)	<b>Evaporation Rate:</b>	Not available
<b>Flammability:</b>	Category 2	<b>LFL/UFL:</b>	Not available
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density:</b>	Greater than air
<b>Relative Density:</b>	1.2	<b>Solubility:</b>	Insoluble in water
<b>Partition Coefficient K<sub>ow</sub>:</b>	Not available	<b>Auto-Ignition Temp.:</b>	230°C (446°F)
<b>Decomposition Temp.:</b>	Not applicable	<b>Viscosity:</b>	2500-16000 cP

VOC Content: 2.4-4.2 g/L

**SECTION 10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable at recommended storage and handling conditions. Direct sun exposure or storage at temperatures above 60°C/140°F may produce uncontrolled and exothermic polymerization.  
**Conditions to Avoid:** Sources of ignition  
**Incompatible Materials:** Oxidizing agents, strong acids, strong bases  
**Hazardous Decomposition:** Carbon monoxide, carbon dioxide  
**Hazardous Reactions:** Will not occur

**SECTION 11. TOXICOLOGY INFORMATION**

**POTENTIAL HEALTH EFFECTS:**

**Summary:** Material is flammable, irritating to eyes and skin.  
**Inhalation:** Irritation of the lungs  
**Skin Contact:** Drying of skin and dermatitis may occur  
**Eye Contact:** May cause irritation, redness, and burning; vapors may also cause irritation  
**Ingestion:** Irritation of gastrointestinal tract  
**Target Organs:** Respiratory tract, skin, eyes

**ACUTE TOXICITY**

**General Information:** In high concentration the material is irritating to the mucous membranes.  
**Component Analysis:**

Methyl methacrylate (80-62-6):  
Oral LD50 Rat: 7872 mg/kg  
Dermal LD50 Rabbit: >5000 mg/kg  
Inhalation (rat): 78000 mg/m<sup>3</sup> (4-hr dose)  
2-Ethylhexyl acrylate (103-11-7):  
Oral LD50 Rat: 6700 mg/kg  
Titanium Dioxide (13463-67-7):  
LD50 (oral, rat) > 5000 mg/kg  
LD50 (dermal, rabbit): no skin irritation  
Inhalation (rat): > 6.82 mg/L (4 hr)  
Silica, amorphous, fumed, cryst. free (112945-52-5):  
Oral LD50 Rat: 3160 mg/kg  
N-methyl-2-pyrrolidone (98-56-6):

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Oral LD50 Rat: 3914 mg/kg  
Dermal LD50 Rabbit: >5000 mg/kg  
Cobalt bis(2-ethylhexanoate) (98-56-6):  
Oral LD50 Rat: 1220 mg/kg  
Dermal LD50 Rabbit: >5000 mg/kg

**CARCINOGENICITY**

General Information:

This product is not classified as a carcinogen or potential carcinogen by OSHA, NTP, ACGIH, or IARC. No specific data available.

Component Analysis:

Methyl methacrylate (80-62-6):  
IARC: 3 – Unclassifiable as to Carcinogenicity in Humans  
EPA: NL - Not Likely to be Carcinogenic to Humans  
ACGIH: A4 – Not Classifiable as a Human Carcinogen  
2-Ethylhexyl acrylate (103-11-7):  
IARC: 3 – Unclassifiable as to Carcinogenicity in Humans  
Titanium Dioxide (13463-67-7):  
IARC: Group 2B – Possibly carcinogenic to humans (Vol. 93, 2006)  
NTP: Potential occupational carcinogen  
ACGIH: A4 – Not Classifiable as a Human Carcinogen  
Silica, amorphous, fumed, cryst. free (112945-52-5):  
IARC: 3 – Unclassifiable as to Carcinogenicity in Humans  
Cobalt bis(2-ethylhexanoate) (136-52-7):  
IARC: Group 2B – Possibly carcinogenic to humans (Vol. 52, 1991)  
NTP: Reasonably anticipated to be a human carcinogen

**CHRONIC TOXICITY**

No data is available on mutagenicity, reproductive effects, or developmental effects.

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**SECTION 12. ECOLOGICAL INFORMATION**

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This product contains components that will normally float on water. These components may be harmful to aquatic organisms and may cause long term effects in the aquatic environment.

Do not empty into drains or waterways.

**TOXICITY**

Methyl methacrylate: Acute LC50 130000 ug/L Fresh Water (Fish – Pimephales promelas, Adult – 96 h)  
Titanium dioxide: Acute LC50 >1000000 ug/L Marine Water (Fish – Fundulus heteroclitus – 96 h)

**BIOACCUMULATIVE POTENTIAL**

Methyl methacrylate: log P<sub>ow</sub> = 1.38  
2-Ethylhexyl acrylate: log P<sub>ow</sub> = 4.64  
N-methyl-2-pyrrolidone: log P<sub>ow</sub> = -0.46  
Cobalt bis(2-ethylhexanoate): BCF = 15600  
Stoddard solvent (WG ONLY): Log P<sub>ow</sub> = 3.16 to 7.06

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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Dispose of waste in accordance with Federal, State, and local environmental control regulations. This material may be classified as hazardous under the Resource Conservation and Recovery Act. (40 CFR 261)

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**SECTION 14. TRANSPORTATION INFORMATION**

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This product is hazardous for transportation.

Shipping Name: Paint

Class: 3

Packing Group: II

ID No.: UN1263

ERG: 128

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**SECTION 15. REGULATORY INFORMATION**

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SARA Title III: Health: Acute YES Chronic YES EHS NO  
Physical: Fire YES Reactivity NO Pressure NO

SARA 313 (TRI): This product contains the following chemicals subject to reporting under Superfund Amendments Reauthorization Act, Title III, Section 313 (Toxic Release Inventory):

<u>Component</u>	<u>% by weight</u>
Methyl methacrylate (80-62-6)	10-25 %
Cobalt bis(2-ethylhexanoate) (136-52-7)	<0.25%

California Proposition 65:



**WARNING:** This product can expose you chemicals including benzene and ethylbenzene, which are known to the State of California to cause cancer, and benzene, toluene, and N-methyl-2-pyrrolidone which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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**SECTION 16. OTHER INFORMATION**

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The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. No warranty of merchantability or any other warranty, expressed or implied, is given. In no case shall the information provided herein be considered a part of the terms and conditions of sale. Seaman Corporation assumes no obligation or liability for the information given or results obtained. All materials may present unknown hazards and should be used with caution. Final determination of suitability of any material is the sole responsibility of the user.

For questions related to the safety of this product, e-mail [msds@seamancorp.com](mailto:msds@seamancorp.com) or call (330) 262-1111

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