



**ASI 174 Clear Siliconized Acrylic Latex**

<b>Section 1: Product and Company Identification</b>	
American Sealants, Inc. 9190 Yeager Ln Fort Wayne, Indiana 46809 Phone: 260-489-0728 Fax: 260-489-0519	Emergency Phone Number Infotrac: +1-800-535-5053 (Within US) Infotrac: +1-352-323-3500 (Outside US)
Product Identifier:	ASI 174 Clear Siliconized Acrylic Latex
Recommended Use:	Aqueous Clear Sealant w/ Silicone (applies white, dries clear within 2 weeks)
Restrictions on Use:	None known.

<b>Section 2: Hazard(s) Identification</b>	
This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.	
Acute and Delayed Effects:	Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.
Indication of Immediate Medical Attention and Special Treatment Needed, If Needed:	Treat symptomatically and supportively. May aggravate pre-existing skin disorders.
<b>GHS Label Elements</b>	
Symbol(s):	None.
Signal Word:	None.
Hazard Statement(s):	None known.
Precautionary Statement(s) Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.
Response:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

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	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Storage:	Close container after each use. Store containers away from excessive heat & freezing. Do not store at temperatures above 120 °F.
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3: Composition/Information on Ingredients

<u>CAS</u>	<u>Component</u>	<u>Percent</u>
Mixture	Acrylic Emulsion	< 95
Mixture	Acrylic Thickener	< 5
Proprietary	Non-hazardous Ingredients*	< 5
57-55-6	Propylene Glycol	< 1.25
7664-41-7	Ammonium Hydroxide	< 0.25
64742-48-9	Petroleum Hydrocarbon	< 0.50

\*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## Section 4: First-Aid Measures

Inhalation:	IF INHALED: Remove to fresh air. If breathing difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention.
Skin Contact:	IF ON SKIN: Wash off with plenty of soap and water while removing all contaminated clothes and shoes. If irritation persists: Get medical advice/attention. Wash contaminated clothing before use.
Eye Contact:	IF IN EYES: Flush eyes with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation develops and persists: Get medical advice/attention.
Ingestion:	Do not induce vomiting, unless directed by medical personnel. Get immediate medical attention if symptoms occur. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

## Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Use carbon dioxide, regular dry chemical powder, alcohol-resistant foam, or water fog.
Unsuitable Extinguishing Media:	None known.

### Specific Hazards Arising from the Chemical

Hazardous Decomposition Products: Carbon, titanium and iron oxides, depending upon formulation.

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Special Protective Equipment and Precautions for Firefighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

Product is combustible and may ignite if exposed to high temperature or direct flame.

Specific extinguishing methods:

Use water spray to keep fire-exposed containers cool.

### Section 6: Accidental Release Measures

Personal Precautions, Protective

Equipment and Emergency Procedures:

Wear appropriate personal protective equipment.

Environment Precautions:

Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater.

Methods and Materials for Containment and Cleaning Up:

Prevent further leakage or spillage if safe to do so. Use absorbent material to contain spill. Sweep up absorbed material and shovel into suitable containers for disposal. Wash area with soap and water. For waste disposal, see section 13 of the SDS.

### Section 7: Handling and Storage

**Precautions for Safe Handling**

Protective Measures:

Avoid breathing vapors. Use only with adequate ventilation. Open windows & doors to ensure fresh air cross-ventilation during application and curing.

Avoid contact with skin, eyes or clothing.

While handling product keep out of reach of children and pets.

Advice on General Occupational

Hygiene:

Do not eat, drink, or smoke when using this product.

Wash thoroughly after handling.

Wash contaminated clothing before reuse.

Conditions for Safe Storage, including any Incompatibilities:

Close container after each use.

Store containers away from excessive heat & freezing. Do not store at temperatures above 120 °F.

To maximize shelf life, store at temperatures below 26 °C (80 °F).

Incompatibilities:

Oxidizers and strong acids

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<b>Section 8: Exposure Controls/Personal Protection</b>		
<b>Component Exposure Limits</b>		
CAS	Component	Exposure Limits
7664-41-7	Ammonium Hydroxide	<b>ACGIH TLV:</b> 35 ppm STEL; 25 ppm TWA <b>OSHA PEL:</b> 50 ppm TWA; 35 mg/m <sup>3</sup> TWA; (vacated) 35 ppm STEL; (vacated) 27 mg/m <sup>3</sup> STEL <b>NIOSH IDLH:</b> 300 ppm IDLH; 25 ppm TWA; 18 mg/m <sup>3</sup> TWA; 35 ppm STEL; 27 mg/m <sup>3</sup> STEL
<p>Appropriate Engineering Controls: Provide adequate general and local exhaust ventilation.</p> <p><b>Individual Protection Measures</b></p> <p>Eye/Face Protection: Wear tightly sealed safety glasses according to EN 166.</p> <p>Skin Protection: Skin should be washed after contact.                      Body: Use protection appropriate for task (eg: lab coat, coveralls, Tyvek suit). If necessary, refer to OSHA Technical Manual (Sec. VII: Personal Protective Equipment) or appropriate Standards of Canada. Use foot protection, as described in appropriate regulations &amp; standards.</p> <p>Hand Protection: Wear chemical impervious gloves (eg: Nitrile or Neoprene). Use triple gloves for spill response. If necessary, refer to appropriate regulations &amp; standards. Wash hands before breaks and at the end of workday.</p> <p>Respiratory Protection: If mists or sprays are created, use appropriate respiratory protection. Oxygen levels below 19.5% considered IDLH by OSHA. In such instances, use full-face piece pressure demand SCBA or a full face piece, supplied air respirator w/ auxiliary self-contained air supply.</p>		

<b>Section 9: Physical and Chemical Properties</b>	
<b>Physical State:</b> Smooth paste  <b>Color:</b> White when applied, dries clear < 2 weeks  <b>Odor:</b> Mild acrylic, Slight ammoniacal odor  <b>pH:</b> 7.0 – 10.0 <b>Boiling Point/Boiling Range:</b> ~98.88 - 104.44 °C / ~210 - 220 °F  <b>Flash Point:</b> > 93.33 °C / > 200 °F <b>OSHA Flammability Class:</b> Not classified as a flammability hazard  <b>Vapor Density (air = 1):</b> > 1 (air=1) <b>Specific Gravity (water = 1):</b> ~1.04-1.08 (at 25 °C) <b>Log KOW:</b> Not available <b>KOC:</b> Not available <b>Viscosity:</b> Not available	<b>Appearance:</b> White when applied, paste <b>Physical Form:</b> : Paste  <b>Odor Threshold:</b> Not available  <b>Melting Point:</b> < 0 °C / < 32 °F <b>Decomposition:</b> Not available  <b>Evaporation Rate:</b> Not available <b>Vapor Pressure:</b> Not available  <b>Density:</b> 1.03 (25 °C) <b>Water Solubility:</b> Soluble in water <b>Coeff. Water/Oil Dist:</b> Not available <b>Auto Ignition:</b> Not available <b>VOC:</b> < 0.5 %; < 10 g/L

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**Volatility:** Not available

**Molecular Formula:** Not applicable

## Section 10: Stability and Reactivity

Reactivity: Cures upon contact with air.

Chemical Stability: Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Excessive heat or cold. Do not store at temperatures above 120 °F.

Incompatible Materials: Oxidizers and strong acids

Hazardous Decomposition Products: Carbon, titanium and iron oxides, depending upon formulation.

## Section 11: Toxicological Information

### Acute Toxicity

#### Component Analysis – LD50/LC50

CAS	Component	Result	Species	Dose	Exposure
57-55-6	Propylene Glycol	LD50 Oral	Rat	= 2000 mg/kg	N/A
		LD50 Dermal	Rabbit	= 20800 mg/kg	N/A
7664-41-7	Ammonium Hydroxide	LD50 Oral	Rat	= 350 mg/kg	N/A
		LC50 Inhalation	Rat	= 5.1 mg/L = 2000 ppm	1 hr 4 hr
64742-48-9	Petroleum Hydrocarbon	LD50 Oral	Rat	> 5000 mg/kg	N/A
		LD50 Dermal	Rabbit	> 3160 mg/kg	N/A

### Information on Likely Routes of Exposure

Inhalation: Mildly irritating to respiratory tract.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

Skin Contact: Prolonged and frequent contact may cause redness and irritation. Repeated skin contact may cause dermatitis.

Eye Contact: May cause temporary irritation on eye contact.

Immediate and Delayed Effects: Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.

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Medical Conditions Aggravated by Exposure:	May aggravate pre-existing skin disorders.
Irritation/Corrosivity Data:	Not available.
Respiratory Sensitization:	Not known to be human skin or respiratory sensitizers.
Dermal Sensitization:	Not known to be human skin or respiratory sensitizers.
Germ Cell Mutagenicity:	Not available.
Carcinogenicity:	Trace residual Formaldehyde present in base emulsion viewed as possible cancer hazard.
<b>Component Carcinogenicity:</b>	Not available.
Reproductive Toxicity:	Not available.
Specific Target Organ Toxicity – Single Exposure:	Not available.
Specific Target Organ Toxicity – Repeated Exposure:	Not available.
Aspiration Hazard:	Not available.

Section 12: Ecological Information						
<b>Ecotoxicity</b>						
Product not tested for aquatic or animal toxicity. Release of product to terrestrial, atmospheric & aquatic environments should be avoided.						
<b>Component Analysis – Aquatic Toxicity</b>						
CAS	Component	Aquatic	Result	Species	Dose	Exposure
57-55-6	Propylene Glycol	Fish	LC50	Rainbow trout ( <i>Oncorhynchus mykiss</i> )	51600 mg/L	96 hr
			LC50	Rainbow trout ( <i>Oncorhynchus mykiss</i> )	41 - 47 mL/L [static]	96 hr
			LC50	Fathead minnow ( <i>Pimephales promelas</i> )	51400 mg/L [static]	96 hr
			LC50	Fathead minnow ( <i>Pimephales promelas</i> )	710 mL/L	96 hr
		Invertebrates	EC50	Water flea ( <i>Daphnia magna</i> )	10000 mg/L	24 hr

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			EC50	Water flea ( <i>Daphnia magna</i> )	1000 mg/L	48 hr
		Algae	EC50	Green algae ( <i>Pseudokirchneriella subcapitata</i> )	19000 mg/L	96 hr
7664-41-7	Ammonium Hydroxide	Fish	LC50	Common Carp ( <i>Cyprinus carpio</i> )	0.44 mg/L	96 hr
			LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.26 – 4.6 mg/L	96 hr
			LC50	Bluegill ( <i>Lepomis macrochirus</i> )	1.17 mg/L [flow-through]	96 hr
			LC50	Fathead minnow ( <i>Pimephales promelas</i> )	0.73 – 2.35 mg/L	96 hr
			LC50	Fathead minnow ( <i>Pimephales promelas</i> )	5.9 mg/L [static]	96 hr
			LC50	Guppy ( <i>Poecilia reticulata</i> )	1.5 mg/L	96 hr
			LC50	Guppy ( <i>Poecilia reticulata</i> )	1.19 mg/L	96 hr
		Invertebrates	LC50	Water flea ( <i>Daphnia magna</i> )	25.4 mg/L	48 hr
64742-48-9	Petroleum Hydrocarbon	Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	2200 mg/L	96 hr
		Invertebrates	LC50	<i>Chaetogammarus marinus</i>	2.6 mg/L	96 hr
Persistence and Degradability:		No information available for the product.				
Bioaccumulative Potential:		No information available for the product.				
Mobility in Soil:		No information available for the product.				
<b>CAS</b>	<b>Component</b>	<b>Partition Coefficient</b>				
7664-41-7	Ammonium Hydroxide	-1.14				
Biodegradation:		No information available for the product.				

### Section 13: Disposal Considerations

Disposal Methods: Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

Disposal of Contaminated Packaging: Dispose of unused product properly. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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Component Waste Numbers:	The U.S. EPA has not published waste numbers for this product's components.
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<b>Section 14: Transport Information</b>	
<b>International Regulation</b>	
IATA:	Not regulated as a dangerous good.
IMDG:	Not regulated as a dangerous good.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: This product is not intended to be transported in bulk.	
<b>Domestic Regulation</b>	
DOT:	Not regulated as a dangerous good.

<b>Section 15: Regulatory Information</b>					
<b>US Federal Regulations</b>					
SARA 302 Extremely Hazardous Substances: None contained in product.					
SARA 304: Not applicable.					
SARA 311/312: <b>Acute Health: Yes Chronic Health: No Fire: No Pressure: No Reactive: No</b>					
SARA 313:					
<b>CAS</b>	<b>Component</b>	<b>Weight- %</b>	<b>SARA 313 – Threshold Values %</b>		
76664-41-7	Ammonium Hydroxide	< 0.25	1.0		
TSCA: All components of this product are listed on TSCA Inventory.					
Clean Water Act:					
<b>CAS</b>	<b>Component</b>	<b>CWA – Reportable Quantities</b>	<b>CWA – Toxic Pollutants</b>	<b>CWA – Priority Pollutants</b>	<b>CWA – Hazardous Substances</b>
76664-41-7	Ammonium Hydroxide	100 lb			X
CERCLA Reportable Quantity:					
<b>CAS</b>	<b>Component</b>	<b>Hazardous Substances RQs</b>	<b>CERCLA/SARA RQ</b>	<b>Reportable Quantity (RQ)</b>	
76664-41-7	Ammonium Hydroxide	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ	
<b>US State Regulations</b>					
Massachusetts Right-to-Know - Substance List:		Ammonium Hydroxide (7664-41-7)			
New Jersey Worker and Community Right-to-Know Act:		Propylene Glycol (57-55-6) Ammonium Hydroxide (7664-41-7)			
Pennsylvania Worker and Community Right-to-Know Law:		Propylene Glycol (57-55-6) Ammonium Hydroxide (7664-41-7)			



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California Proposition 65: This product does not contain any chemicals known by the State of California to cause cancer or reproductive harm.

### Component Analysis – International Inventories

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Propylene Glycol	57-55-6	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes
Ammonium Hydroxide	7664-41-7	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes
Petroleum Hydrocarbon	64742-48-9	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes

### Section 16: Other Information

Issue Date: 7/7/15

Revision: 1

NFPA Ratings:

Health: 1

Fire: 1

Reactivity: 0



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = Not Significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, \* = Chronic

Key/Legend:

AICS (Australia); DSL (Canada); IECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI (Korea); NZIoC (New Zealand); PICCS (Philippines); TCSI (Taiwan); TSCA (USA); ACGIH – USA. ACGIH Threshold Limit Values (TLV); NIOSH REL – USA. NIOSH Recommended Exposure Limits; OSHA P0 – USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000; OSHA Z-1 – USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminates; OSHA Z-3 – USA. Occupational Exposure Limits (OSHA) – Table Z-3 Mineral Dusts; ACGIH / TWA – 8-hour, time-weighted average; NIOSH REL / TWA – Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek; NIOSH REL / ST – STEL – 15-minute TWA exposure that should not be exceeded at any time during a workday; OSHA P0 / TWA - 8-hour, time-weighted average; OSHA Z-1 / TWA - 8-hour, time-weighted average; OSHA Z-3 / TWA - 8-hour, time-weighted average

Disclaimer:

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations.

**End of Document**



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Product Identifier:	ASI 174 White Siliconized Acrylic Latex
Recommended Use:	Premium quality, spec-compliant general purpose elastomeric sealant.
Restrictions on Use:	None known.

<b>Section 2: Hazard(s) Identification</b>	
<b>Classification in accordance with 29 CFR 1910.1200.</b>	
Acute oral toxicity, Category 5 Eye irritation, Category 2B Skin irritation, Category 3 Aquatic chronic toxicity, Category 4	
Acute and Delayed Effects:	Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.
Indication of Immediate Medical Attention and Special Treatment Needed, If Needed:	Treat symptomatically and supportively. Dermatitis or other pre-existing skin conditions may be aggravated by overexposure to this product.
<b>GHS Label Elements</b>	
Symbol(s):	None.
Signal Word:	Warning
Hazard Statement(s):	May be harmful if swallowed. Causes mild skin irritation. Causes eye irritation. May cause long lasting harmful effects to aquatic life.
Precautionary Statement(s) Prevention:	Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

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Response:	If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage:	Close container after each use and keep tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight & high temperatures. Protect from freezing.
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3: Composition/Information on Ingredients

<b>CAS</b>	<b>Component</b>	<b>Percent</b>
Mixture	Calcium Carbonate**	< 40
Mixture	Acrylic Emulsion	< 45
Proprietary	Benzoate Ester	< 10
64742-48-9	Petroleum Distillate	< 0.75
13463-67-7	Titanium Dioxide	< 2
7664-41-7	Ammonium Hydroxide	< 0.25
Various	Non-hazardous Ingredients*	< 5
1333-86-4	Carbon Black	0 – 0.25

\*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

\*\*Inhalation of particulates unlikely due to product's physical state.

\*\*\* May be present at very low levels in colors other than White. Calculated VOC: < 1.5%/wt (< 25 g/L). CARB Compliance: Yes. Prop 65 Ingredients: Yes.

## Section 4: First-Aid Measures

Inhalation:	IF INHALED: Remove to fresh air. If breathing difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention.
Skin Contact:	IF ON SKIN: Wash off with plenty of soap and water while removing all contaminated clothes and shoes. If irritation persists: Get medical advice/attention. Wash contaminated clothing before use.
Eye Contact:	IF IN EYES: Flush eyes with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation develops and persists: Get medical advice/attention.
Ingestion:	Do not induce vomiting, unless directed by medical personnel. Get immediate medical attention if symptoms occur. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

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## Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use carbon dioxide, regular dry chemical powder, alcohol-resistant foam, or water fog.

Unsuitable Extinguishing Media: None known.

### Specific Hazards Arising from the Chemical

Hazardous Decomposition Products: Carbon, titanium and iron oxides, depending upon formulation.

Special Protective Equipment and Precautions for Firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

Specific extinguishing methods: Use water spray to cool exposed surfaces.

## Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Small Spills: 1 drum or less – Level D Equipment (gloves, chemical resistant apron, boots & eye protection).

Large Spills: Rubber gloves, rubber boots, face shield & Tyvek suit as a minimum. Minimum level of PPE for releases in which the oxygen level is < 19.5% or is unknown, should be Level B: triple gloves (rubber gloves & nitrile gloves over latex gloves), chemical resistant suit, fire-retardant clothing & boots, hard hat & self-contained breathing apparatus.

Environment Precautions: Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater. Place spill residues in suitable container & seal. Do not allow discharge containing this material to enter streams, ponds, estuaries, oceans or other waters unless in accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to discharge. Do not allow discharge containing this material to enter sewer systems without previously notifying local sewage treatment plant authority. For information, contact State Water Board or EPA Regional Office.

Methods and Materials for Containment and Cleaning Up: Restrict access to spill area. Gently cover spill with polypads. Scrape up/pick up spilled material and place in suitable containers. Absorb residual with material such as sand. Place contaminated absorbent and other materials in appropriate containers and seal. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and Local procedures. Dispose of recovered material and report spill as per regulatory requirements. Clean spill area with soap and water.

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<b>Section 7: Handling and Storage</b>	
<b>Precautions for Safe Handling</b>	
Protective Measures:	Avoid breathing vapors. Use only with adequate ventilation. Open windows & doors to ensure fresh air cross-ventilation during application and curing. Avoid contact with skin, eyes or clothing. Do not take internally. While handling product keep out of reach of children and pets.
Advice on General Occupational Hygiene:	Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse.
Conditions for Safe Storage, including any Incompatibilities:	Store containers in a cool, dry location, away from direct sunlight and high temperatures. Close container after each use and keep tightly closed when not in use. Protect from freezing. To maximize shelf life, store at temperatures below 26 °C (80 °F).
Incompatibilities:	Strong acids

<b>Section 8: Exposure Controls/Personal Protection</b>		
<b>Component Exposure Limits</b>		
CAS	Component	Exposure Limits
1317-65-3	Calcium Carbonate	<b>OSHA PEL:</b> 15 mg/m <sup>3</sup> TWA (Total dust); 5 mg/m <sup>3</sup> TWA (Respirable fraction)
		<b>NIOSH REL:</b> 10 mg/m <sup>3</sup> TWA (Total dust); 5 mg/m <sup>3</sup> TWA (Respirable fraction)
Mixture	Acrylic Emulsion	NE
Proprietary	Benzoate Ester	NE
57-55-6	Propylene Glycol	<b>AIHA WEEL:</b> 10 mg/m <sup>3</sup> TWA
13463-67-7	Titanium Dioxide	<b>ACGIH TLV:</b> 10 mg/m <sup>3</sup> TWA
1333-86-4	Carbon Black	<b>ACGIH TLV:</b> 3.5 mg/m <sup>3</sup> TWA (Inhalable fraction) <b>OSHA PEL:</b> 3.5 mg/m <sup>3</sup> TWA <b>NIOSH REL:</b> 3.5 mg/m <sup>3</sup> TWA <b>DFG MAK:</b> TWA (As inhalable dust)
64742-48-9	Petroleum Distillate	<b>ACGIH:</b> 5 mg/m <sup>3</sup> TWA; 10 mg/m <sup>3</sup> STEL <b>OSHA:</b> 5 mg/m <sup>3</sup> TWA
Appropriate Engineering Controls:	Provide adequate general and local exhaust ventilation.	
<b>Individual Protection Measures</b>		
Eye/Face Protection:	Wear tightly sealed safety glasses according to EN 166.	

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Skin Protection:	Skin should be washed after contact. Body: Use protection appropriate for task (eg: lab coat, coveralls, Tyvek suit). If necessary, refer to OSHA Technical Manual (Sec. VII: Personal Protective Equipment) or appropriate Standards of Canada. Use foot protection, as described in appropriate regulations & standards.
Hand Protection:	Wear chemical impervious gloves (eg: Nitrile or Neoprene). Use triple gloves for spill response. If necessary, refer to appropriate regulations & standards. Wash hands before breaks and at the end of workday.
Respiratory Protection:	If mists or sprays are created, use appropriate respiratory protection. Oxygen levels below 19.5% considered IDLH by OSHA. In such instances, use full-face piece pressure demand SCBA or a full face piece, supplied air respirator w/ auxiliary self-contained air supply.

## Section 9: Physical and Chemical Properties

<b>Physical State:</b> Smooth paste	<b>Appearance:</b> Paste
<b>Color:</b> White + various additional colors	<b>Physical Form:</b> : Paste
<b>Odor:</b> Mild acrylic	<b>Odor Threshold:</b> Not available
<b>pH:</b> 7 – 9	<b>Freezing/Melting Point:</b> < 0 °C / < 32 °F
<b>Boiling Point/Boiling Range:</b> Not available	<b>Decomposition:</b> Not available
<b>Flash Point:</b> > 93 °C (> 200 °F)	<b>Evaporation Rate:</b> Not available
<b>OSHA Flammability Class:</b> Not classified as a flammability hazard	<b>Vapor Pressure:</b> Not available
<b>Vapor Density (air = 1):</b> > 1 (air=1)	<b>Density:</b> Not available
<b>Specific Gravity (water = 1):</b> ~1.40-1.50 (at 25 °C)	<b>Water Solubility:</b> Soluble
<b>Log KOW:</b> Not available	<b>Coeff. Water/Oil Dist:</b> Not available
<b>KOC:</b> Not available	<b>Auto Ignition:</b> Not available
<b>Viscosity:</b> Not available	<b>VOC:</b> Not available
<b>Volatility:</b> Not available	<b>Molecular Formula:</b> Not applicable

## Section 10: Stability and Reactivity

Reactivity:	Cures upon contact with air.
Chemical Stability:	Stable at normal temperatures and pressure.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Exposure to extreme temperatures.
Incompatible Materials:	Strong acids
Hazardous Decomposition Products:	Thermal decomposition can generate irritating dust, fumes, and toxic gases (carbon, titanium & iron oxides, depending upon formulation).

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## Section 11: Toxicological Information

### Acute Toxicity

**Component Analysis – LD50/LC50:** Not available

### Information on Likely Routes of Exposure

**Inhalation:** Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.

**Ingestion:** If product swallowed, mild irritation to mouth, throat, and other tissues of gastro-intestinal system may result and may cause nausea, vomiting, and diarrhea.

**Skin Contact:** Contact may result in mild skin irritation. Prolonged or repeated skin contact may result in dermatitis (red, dry skin).

**Eye Contact:** Eye contact may result in tearing, redness & pain.

**Injection:** Accidental injection of product (puncture with contaminated object) may result in redness, burning & swelling.

**Immediate and Delayed Effects:** Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.

**Medical Conditions Aggravated by Exposure:** May aggravate pre-existing skin disorders.

**Irritation/Corrosivity Data:** May mildly irritate contaminated tissue, especially when prolonged. Eye irritation may be more pronounced.

**Respiratory Sensitization:** Not known to be human skin or respiratory sensitizers.

**Dermal Sensitization:** Not known to be human skin or respiratory sensitizers.

**Germ Cell Mutagenicity:** Not available.

**Carcinogenicity:** Trace residual Formaldehyde present in base emulsion viewed as possible cancer hazard.

### Component Carcinogenicity

CAS	Component	Result
Mixture	Crystalline Silica	<b>ACGIH:</b> Present in Calcium Carbonate, suspected as human carcinogen.
		<b>IARC:</b> Group 1 (Carcinogenic to humans)
		<b>NTP:</b> Known to be Human Carcinogen

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1333-86-4	Carbon Black	<b>ACGIH:</b> Confirmed animal carcinogen with unknown relevance to humans.
		<b>IARC:</b> Group 2B (possibly carcinogenic to humans)
		<b>NIOSH:</b> Potential occupational carcinogen with no further categorization.
13463-67-7	Titanium Dioxide	<b>ACGIH:</b> Not classifiable as a human carcinogen.
		<b>IARC:</b> Group 2B (possibly carcinogenic to humans)
		<b>NIOSH:</b> Potential occupational carcinogen with no further categorization.
<p>Reproductive Toxicity: Not available.</p> <p>Specific Target Organ Toxicity – Single Exposure: Eyes and Skin</p> <p>Specific Target Organ Toxicity – Repeated Exposure: Skin.</p> <p>Aspiration Hazard: Not available.</p>		

<b>Section 12: Ecological Information</b>	
<b>Ecotoxicity</b>	
Product not tested for aquatic or animal toxicity. Release of product to terrestrial, atmospheric & aquatic environments should be avoided.	
<b>Component Analysis – Aquatic Toxicity:</b>	Not available.
Persistence and Degradability:	Not tested for persistence & biodegradability.
Bioaccumulative Potential:	Not tested for bio-accumulation potential.
Mobility in Soil:	Not tested for mobility in soil.
Biodegradation:	No information available for the product.

<b>Section 13: Disposal Considerations</b>	
Disposal Methods:	RCRA Hazard Class (40 CFR 261) When a decision is made to discard material, as received, is it classified as a hazardous waste? No. State or local laws may impose additional regulatory requirements regarding disposal. Generator of waste is responsible for waste determination and execution.
Disposal of Contaminated Packaging:	Dispose of unused product properly. Empty containers should be taken to an approved waste handling site for recycling or disposal.



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Component Waste Numbers: The U.S. EPA has not published waste numbers for this product's components.

## Section 14: Transport Information

### International Regulation

IATA: Not regulated as a dangerous good.

IMO: Not regulated as a dangerous good.

Transport Canada: Not regulated as a dangerous good.

### Domestic Regulation

DOT: Not regulated as a dangerous good.

## Section 15: Regulatory Information

### US Federal Regulations

SARA 302 Extremely Hazardous

Substances: None contained in product.

SARA 304: Not applicable.

SARA 311/312: **Acute Health:** Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

SARA 313: None contained in product.

TSCA: All components of this product are listed on TSCA Inventory.

CERCLA Reportable Quantity: Not Applicable.

### US State Regulations

Massachusetts Right-to-Know - Substance List: Crystalline silica (Mixture)  
Carbon black (1333-86-4)  
Ammonium Hydroxide (7664-41-7)

New Jersey Worker and Community Right-to-Know Act: Crystalline silica (Mixture)  
Carbon black (1333-86-4)  
Titanium oxide (13463-67-7)  
Petroleum distillates (64742-48-9)  
Ammonium Hydroxide (7664-41-7)

Pennsylvania Worker and Community Right-to-Know Law: Crystalline silica (Mixture)  
Carbon black (1333-86-4)  
Titanium oxide (13463-67-7)  
Petroleum distillates (64742-48-9)  
Ammonium Hydroxide (7664-41-7)

Rhode Island Right-to-Know: Not regulated

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California Proposition 65: **WARNING!** This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.  
Trace residual Formaldehyde in base polymer. Small levels Silica, Crystalline in Calcium Carbonate filler. Small levels of Carbon that may be required in some colors. (Due to products physical form, inhalation of Carbon Black, Silica, Crystalline, and Titanium Dioxide highly unlikely).

### Component Analysis – International Inventories

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Titanium dioxide	13463-67-7	Yes	DSL	REACH	Yes	Yes	Yes	Yes	Yes	Yes
Carbon black	1333-86-4	Yes	DSL	REACH	Yes	Yes	Yes	Yes	Yes	Yes
Petroleum distillates	64742-48-9	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes
Ammonium Hydroxide	7664-41-7	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes

### Section 16: Other Information

Issue Date: 7/7/15  
Revision: 1  
NFPA Ratings:

Health: 1  
Fire: 1  
Reactivity: 0



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = Not Significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, \* = Chronic

Key/Legend:

NA – Not Applicable, NE – Not Established, UN – Unavailable, VOC – Volatile Organic Compound, PEL – Permissible Exposure Limit, TLV – Threshold Limit Value, STEL – Short Term Exposure Limit, MSDS – Material Safety Data Sheet, ACGIH – American Conference of Governmental Industrial Hygienists, SARA – Superfund Amendments & Reauthorization Act of 1986, OSHA – Occupational Safety & Health Administration, HMIS – Hazardous Materials Identification System, NTP – National Toxicology Program, CEIL – Ceiling Exposure Limit, CASRN (CAS Number) – Chemical Abstracts Service Registry Number, TSCA – Toxic Substances Control Act, NFPA – National Fire Protection Association, DFG MAKs – Fed. Republic of Germany Maximum Concentration Values in Workplace, IDLH – Immediately Dangerous to Life & Health; represents a concentration from which one can escape within 30 minutes without permanent injury

Disclaimer:

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations.

**End of Document**