

# MATERIAL SAFETY DATA SHEET

Prepared according to 29 CFR 1910.1200

N/A = Not applicable

Revised 9/30/09

## SECTION 1 - PRODUCT IDENTIFICATION

### Trade Name: Safecoat Polyureseal BP Gloss

Product I.D.# & Color: 5006 Clear

Product Class: Waterborne Urethane Polymer Emulsion

Supplier's Name: American Formulating & Manufacturing

Telephone #: (619) 239-0321 Fax #: 619-239-0565

Address: 3251 Third Avenue, San Diego, CA 92103

Emergency Phone (MSDS Information): (619) 239-0321 or (562) 693-0872

D.O.T. Emergency Phone Number: (562) 693-0872

US DOT Hazard Shipping Class: Not regulated - aqueous

D.O.T. Labels/Placards Required: No

OSHA Class: 29CFR 1910.1200 Non-hazardous

SARA TITLE III Emergency & Community Right to Know:

Section 311/312 Categorizations (40 CFR 370): Not a hazardous chemical

Section 313 Information (40 CFR 372): This product does not contain a chemical

which is listed in Section 313 above de minimis concentrations.

## SECTION 2 - INGREDIENTS

Modified Polyurethane Aqueous Dispersion	CAS #: Mixture	Weight Percent: 75-80
Dipropylene glycol methyl ether	CAS #: 34590-94-8	Weight Percent: 10-15
OSHA - 100 ppm (600 mg/m <sup>3</sup> ) (skin)		
NIOSH - 100 ppm (600 mg/m <sup>3</sup> ) ST 150 ppm (900 mg/m <sup>3</sup> )		
Vapor Pressure 0.5 mm Hg @ 77 F		
Skin TWA 8 hours - STEL 150 ppm 15 minutes		
Water	CAS #: 7732-18-5	Weight Percent: 5-10
Acrylic Emulsion Copolymer	CAS #: Mixture	Weight Percent: <4
Exposure limits: None assigned	Vapor Pressure 17 mm Hg @ 68 F	

Suspected Cancer Agents: Federal OSHA: No NTP: NO IARC: No None known.

HMIS Codes: H-1 F-0 R-0 P-B

## SECTION 3 - PHYSICAL DATA

Physical Description: Viscous liquid, slight, mild ethereal odor.	
Boiling Point: 100 C/212 F	
Melting Point:.....N/A	
Vapor Density:.....Heavier than air	
% Volatile by Volume:.....71.25%	
LBS/GAL Theoretical:.....8.66 +/- .15	
Solubility in Water:.....Dilutable	
Vapor Pressure, mmHg @ 20degC:.....N/A	
Evaporation Rate:.....Slower than ether	
% Volatile by Weight:.....67.68%	
Specific Gravity (Water=1):.....1.04	
VOC Material:.....110 g/l, 0.91 lb./gal	
VOC Material less H2O:.....275 g/l, 2.29 lb./gal	

## SECTION 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A non-combustible

Flammable limits in air, volume % - lower LEL: 1.1 Upper UEL: 3.0

Flame spread and smoke development (ASTM E-84-94)

Flame Spread - less than twenty-five (<25)

Smoke Development - less than twenty-five (<25)

Class Rating A

Fire Extinguishing Media: Water, carbon dioxide, dry chemical

Personal Protective Equipment: Self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear may be worn if desired, but not necessary for normal use.

Autoignition Temp.: N/A

Special Fire Fighting Procedures: Use water (fog) to cool closed containers. Wear self contained breathing apparatus.

Unusual Fire & Explosion Hazards: Closed containers may explode due to the build up of steam pressure when exposed to extreme heat. Material can splatter above 100°C/212°F. Polymer film can burn.

## SECTION 5 - HEALTH HAZARD INFORMATION & FIRST AID

Threshold Limit Value: See Section 2 for hazardous ingredient information

### Symptoms of Overexposure

Symptoms and Effects of Short Term Exposure: Acute. Primary route of entry:

Swallowing: Swallowing can cause gastrointestinal irritation, nausea ,vomiting, and diarrhea. ASPIRATION HAZARD- This material can enter lungs during swallowing orvomiting and cause lung inflammation and damage. All other effects unknown.

Inhalation: Inhalation of mists and concentrated vapors may cause mild respiratory irritation, and irritation of the mucous membranes, eyes, and nose. High concentrations, can cause nasal and respiratory irritation, dizziness, fatigue, nausea, headache, and central nervous system depression.

Eye Contact: Liquid splashed into the eye(s) may cause transient eye irritation, redness, tearing, and/or blurred vision.

Skin: This product is not normally expected to be absorbed through skin. No harmful effects from skin absorption have been reported. May cause transient skin irritation. Can cause defatting, drying, and cracking of skin which may result in skin irritation and dermatitis. Short term exposure is not expected to cause irritation to most people.

Symptoms and Effects of Repeated Overexposure: Chronic - None known.

Medical Conditions Generally Aggravated by Exposure: None known.

### Emergency & First Aid Procedures:

Inhalation: Remove from exposure. Provide plenty of fresh air. If symptoms persist, get medical attention.

Splash (eyes): Remove any contact lenses. Immediately flush eyes with large (copious) amounts of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, get medical attention.

Splash (skin): Remove with soap and water by thoroughly washing. Remove contaminated clothing. Supply large (copious) amounts of water as a fresh water rinse to help remove material from skin. If irritation persists, get medical attention.

Ingestion (Swallowing): Consult with physician, hospital emergency room, or poison control center immediately. Only if conscious, give 2 glasses of water to drink. Do not induce vomiting.

Notes to Physician: Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

## SECTION 6 - REACTIVITY DATA

**Stability**: Stable, however avoid temperatures above 177°C/350°F, the onset of polymer decomposition.

**Incompatibility (materials to avoid)**: Avoid materials that are water reactive, highly alkaline or highly acidic.

**Hazardous Decomposition by-products**: CO, CO2 on combustion

**Hazardous Polymerization**: Will not occur.

**Conditions to Avoid**: Excess heat may cause containers to rupture. Avoid temperatures below 45°F or freezing conditions.

## SECTION 7 - SPILL, DISPOSAL PROCEDURES; ENVIRONMENTAL DATA

**Steps to be taken in case material is released or spilled**: Confine in small area; contain and remove with inert absorbent (sand, earth, etc.). Place in proper container for proper disposal. CAUTION - Keep out of waterways, drains, sewers by diking. Keep spectators away. Floor may be slippery. Use care to avoid falling.

**Waste Disposal Method**: Place contaminated material in suitable sealed metal containers for disposal. Do not incinerate closed containers. Use non leaking containers, seal tightly and label properly. Do not pour contaminated paint back into unused paint. Do not throw liquid paint into the trash. Where allowed by local laws (check with local regulatory agencies) allow liquid waste materials to dry out before disposing into trash containers. Take all liquid unused paint that cannot be used to approved recycling centers, paint roundups, or county facilities that are approved to take unused paint at collection sites. Contact state, county, city health services or fire departments to find nearest collection centers. Do not dispose of waste into water streams or storm water sewers. Do not mix with other kinds of waste. Dispose all waste in accordance with local, state and federal regulations.

**RCRA Classification**: As produced, this product is not a waste. If discarded as is, it is not classified a "Hazardous" waste under RCRA. This product is not ignitable, corrosive, reactive, or toxic; therefore is not defined as hazardous by the EPA.

**Environmental Hazards**: None known.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

**Respiratory Protection**: If applied by spraying, use an appropriate, properly fitted NIOSH/MSHA approved respirator to remove spray mist. Good room (mechanical) ventilation should be sufficient protection against vapors from product. If further protection is desired or if persons are sensitive to vapors, use a respirator with a NIOSH/MSHA approval number TC-23C-860 or TC-23C-87 or an equivalent. Refer to OSHA 29 CFR 1910.134, "Respiratory Protection".

**Ventilation**: General (mechanical) room ventilation is expected to be satisfactory.

**Protective Gloves**: None required under most conditions. If protection is desired, plastic, nitrile or latex rubber will provide adequate protection.

**Eye Protection**: Safety glasses or goggles with side shields if splashing may occur. Use goggles when spraying, ANSI Z87.1 or approved equivalent.

**Other Protection**: Eye wash or copious amounts of water as a precautionary measure is suggested. Other equipment not likely to be needed.

## SECTION 9 - STORAGE & SPECIAL HANDLING

**Storage Temperature**: Min. 45degF - Max. 120degF/Indoor and outdoor = OK

This product should be stored at room temperature to prolong shelf life. Keep containers in a cool, dry place. Avoid subjecting this product to extreme temperature variations and freezing. Adverse conditions can cause emulsion coagulation.

**KEEP CONTAINER CLOSED. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. DO NOT GET IN EYES. IF PRODUCT IS SPRAYED, PREVENT PROLONGED OR REPEATED BREATHING OF SPRAY MIST. USE ADEQUATE VENTILATION WHEN USING THIS PRODUCT. USE GOOD HYGIENE PRACTICES AND WASH AFTER USING PRODUCT.**

NOTICE: The data and recommendations presented herein are based upon our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made, however, and the product discussed is distributed without warranty, expressed or implied, and the person receiving such product shall make his own determination of the suitability thereof for his particular purpose. The use of this information and the conditions and use of this product are controlled by the user, and it is the responsibility and obligation of the user to determine the conditions of safe use

of this product. If persons using this product are chemically sensitive, a test for personal tolerance is recommended.

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Section 313 Information (40 CFR 372): This product does not contain a chemical which is listed in Section 313 above de minimis concentrations.

## SECTION 2 - INGREDIENTS

Modified Polyurethane Aqueous Dispersion	Weight Percent:70-75
CAS #: Mixture	
Dipropylene glycol methyl ether	Weight Percent: 5 - 10
CAS #: 34590-94-8	
OSHA - 100 ppm (600 mg/m3) (skin)	
NIOSH - 100 ppm (600 mg/m3) ST 150 ppm (900 mg/m3)	
Vapor Pressure 0.5 mm Hg @ 77 F	
Skin TWA 8 hours - STEL 150 ppm 15 minutes	
Water	Weight Percent: 5 - 10
CAS #: 7732-18-5	
Acrylic Emulsion Copolymer	Weight Percent: < 4
CAS #: Mixture	
Exposure limits: None assigned	Vapor Pressure 17 mm Hg @ 68 F
Polysiloxane Polymer	Weight Percent: < 4
CAS #: Mixture	
Exposure limits: None assigned	Vapor Pressure N/A
<b>Suspected Cancer Agents:</b> Federal OSHA: No NTP: NO IARC: No None known.	
HMIS Codes: H-1 F-0 R-0 P-B	

## SECTION 3 - PHYSICAL DATA

Physical Description: Viscous liquid, slight, mild ethereal odor.

Boiling Point: .....100 C/212 F

Melting Point: .....N/A

Vapor Density: .....Heavier than air

% Volatile by Volume: .....68.24%

LBS/GAL Theoretical: .....8.72 +- .15

Solubility in Water: .....Dilutable

Vapor Pressure, mmHg @ 20degC: .....N/A

Evaporation Rate: .....Slower than ether

% Volatile by Weight: .....65.01%

Specific Gravity (Water=1): .....1.05

VOC Material: .....106 g/l, 0.89 lb./gal

VOC Material less H2O: .....250 g/l, 2.09 lb./gal

## SECTION 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A non-combustible

Flammable limits in air, volume % - lower LEL: 1.1 Upper UEL: 3.0

Flame spread and smoke development (ASTM E-84-94)

Flame Spread - less than twenty-five (<25)

Smoke Development - less than twenty-five (<25)

Class Rating A

Fire Extinguishing Media: Water, carbon dioxide, dry chemical

Personal Protective Equipment: Self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear may be worn if desired, but not necessary for normal use.

Autoignition Temp.: N/A

Special Fire Fighting Procedures: Use water (fog) to cool closed containers. Wear self contained breathing apparatus.

Unusual Fire & Explosion Hazards: Closed containers may explode due to the build up of steam pressure when exposed to extreme heat. Material can splatter above 100°C/212°F. Polymer film can burn.

## SECTION 5 - HEALTH HAZARD INFORMATION & FIRST AID

Threshold Limit Value: See Section 2 for hazardous ingredient information

### Symptoms of Overexposure

Symptoms and Effects of Short Term Exposure: Acute. Primary route of entry:

Swallowing: Unknown.

Inhalation: Inhalation-spray mists may cause mild respiratory irritation.

Eye Contact: Liquid splashed into the eye may cause transient eye irritation.

Skin Absorption: None known.

Symptoms and Effects of Repeated Overexposure: Chronic - None known.

Medical Conditions Generally Aggravated by Exposure: None known.

## Emergency & First Aid Procedures:

**Inhalation:** Remove from exposure. Provide plenty of fresh air.

**Splash (eyes):** Flush immediately with large amounts of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Take to a physician for medical treatment.

**Splash (skin):** Remove with soap and water. Remove contaminated clothing. Supply copious amounts of fresh water to the skin areas to rinse material away.

**Ingestion (Swallowing):** Consult with physician, hospital emergency room, or poison control center immediately. Only if conscious, give 2 glasses of water to drink.

**Notes to Physician:** Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

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