Energy Seal Coatings
www.energy-seal.com

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Acu-Base Coat
Product Composition/ Use: Acrylic Elastomeric Primer
Manufacturer Name: Advanced Coating Systems, Inc.
Street Address: 2230 Towne Lake Pkwy, Bldg.1000 Ste.150
City: Woodstock **State:** GA **Zip Code**: 30189 **Phone**: (678)445-0040
Emergency Telephone: INFOTRAC 24hrs, (800)535-5053

SECTION 2- HAZARDS IDENTIFICATION

GHS Ratings:

Carcinogen	1A	Known Human Carcinogen Based on human evidence.

GHS Hazards:

H350	May cause cancer.

GHS Precautions:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Use personal protective equipment as required.
P308+P313	ID exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container in accordance with existing federal, state and local environmental control laws.

Signal Word: Danger

Acute Toxicity:

Eyes: May cause irritation and burns.
Skin: Minot potential for irritation.
Inhalation: Liquid may cause irritation.
Ingestion: May cause irritation and burns.

Chronic Effects: Not expected to cause any adverse chronic health effects.

SECTION 3- COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight Concentration %
Water	7732-18-5	50.00 – 60.00%
Limestone	1317-65-3	10.00 – 20.00%
Titanium dioxide	13463-67-7	1.00 – 5.00%
1, 2-Propylene glycol	57-55-6	1.00 – 5.00%
Carbon black	133-86-4	0.10 – 1.0%
Ammonium hydroxide	1336-21-6	0.10 – 1.0%
Benzophenone	119-61-9	0.10 – 1.0%

SECTION 4- FIRST-AID MEASURES

Inhalation: If symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.

After Eye Contact: Rinse opened eye for at least 15 minutes under running water. Remove contact lenes if present and easy to do so and continue rinsing.

After Swallowing: Consult physician.

Note to Physician: Treat symptomatically.

SECTION 5- FIRE AND EXPLOSION HAZARDS

Flash Point: 99 C (210 F)

LEL: N/A UEL: N/A

Upper and lower explosive limits listed if known.
Suitable Extinguishing Agents: Water spray, CO2, Foam, Dry chemical

Information about Protection against Explosions and Fires:
Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, and traces of HCN

Protective Equipment: Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Person-Related Safety Precautions: Avoid contact with skin and eyes.

Measures for Environmental Protection: Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations. Clean up with water.

SECTION 7- HANDLING AND STORAGE

Information for Safe Handling: Avoid contact with skin or inhalation.

Storage Requirements: Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F. Material may settle.

SECTION 8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	**ACGIH Exposure Limits**	Other Exposure Limits
Water 7732-18-5	Not Established	Not Established	Not Established
Limestone 1317-65-3	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Titanium dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
1,2-Propylene glycol 57-55-6	Not Established		Not Established
Carbon black 1333-86-4	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable fraction)	NIOSH: 3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)
Ammonium hydroxide 1336-21-6	Not Established	Not Established	Not Established
Benzophenone 119-61-9	Not Established	Not Established	Not Established

Engineering Controls: No specific measures required if proper PPE precautions are followed.

General Protective and Hygienic Measures: Usual precautionary measures should be adhered to when handling chemicals.

Personal Protective Equipment:

Respiratory Protection: None required if work area is properly ventilated.
Hand Protection: Protective chemical resistant gloves.
Eye Protection: Safety glasses.
Body Protection: Protective work clothing. Launder separately.

Contaminated Gear: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Black liquid
Odor : Mild
Odor threshold : Not determined
pH : Not available

Vapor Pressure: N/A	**Odor threshold:** N/A
Vapor Density: N/A	**pH:** N/A
Specific Gravity: 1.44	**Melting point:** N/A
Freezing point: N/A	**Solubility:** N/A
Boling range: 100 – 3000°C	**Flash point:** N/A
Evaporation rate: N/A	**Flammability:** N/A
Explosive limit: N/A	**Partition coefficient:** N/A
Autoignition temperature: 371°C	**Decomposition temperature:** N/A

SECTION 10- STABILITY AND REACTIVITY

Incompatible Materials: Avoid contact with isocyanates and strong oxidizing agents.

Hazardous Polymerization: Not expected to occur.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, traces of HCN.

SECTION 11- TOXICOLOGICAL INFORMATION

Mixture Toxicity
Component Toxicity

119-61-9 Benzophenone
Dermal LD50: 3,535 mg/kg (Rabbit)

Toxicity Values Listed if Known.
Acute Toxicity:

Eyes: May cause irritation & burns.
Skin: Minor potential for irritation.
Inhalation: Liquid may cause irritation.
Ingestion: May cause irritation & burns.
Chronic Effects: Not expected to cause any adverse chronic health effects.
Routes of Entry: Inhalation, ingestion, skin contact, eye contact
Target Organs: Eyes, skin

Chemicals with Known or Possible Carcinogenic Effects:

CAS Number	Description	% Weight	Carcinogen Rating
119-61-9	Benzophenone	0.1 – 1.0%	Benzophenone: IARC: Possible human carcinogen OSHA: listed.
1317-65-3	Limestone	10 – 20%	Limestone
1333-86-4	Carbon black	0.1 – 1.0%	Carbon black: NIOSH: potential occupational Carcinogen. IARC: Possible human carcinogen OSHA: listed.
13463-67-7	Titanium dioxide	1 – 5%	Titanium dioxide: NIOSH: potential occupational carcinogen. IARC: Possible human carcinogen OSHA: listed.

SECTION 12- ECOLOGICAL INFORMATION

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.

Component Ecotoxicity

1,2-Propylene glycol	96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static]; 96 Hr LC50 Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales promelas: 710 mg/L 48 Hr EC50 Daphnia magna: >1000 mg/L [Static] 96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L
Ammonium hydroxide	96 Hr LC50 Pimephales promelas: 8.2 mg/L 48 Hr EC50 water flea: 0.66 mg/L; 48 Hr EC50 Daphnia pulex: 0.66 mg/L
Benzophenone	96 Hr LC50 Pimephales promelas: 13.2 - 15.3 mg/L [flow-through]

SECTION 13- DISPOSAL CONSIDERATIONS

Recommendation: Observe local requirements. Dispose of in accordance with local/state/federal environmental control laws.

SECTION 14- TRANSPORT INFORMATION

DOT Regulated Components:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods unless specifically cited below:

Agency	Proper Shipping Name	UN Number	Package Group	Hazard Class
	None			

SECTION 15- REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: This material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: None.

WARNING: This product can expose you to chemicals listed below, which are known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit www.P65Warnings.ca.gov

Benzophenone 119-61-9 0.1 to 1.0 % CARC
Carbon black 1333-86-4 0.1 to 1.0 % CARC
Titanium dioxide 13463-67-7 1 to 5 % CARC

Titanium dioxide and Carbon Black only require Proposition 65 notification when in dust form and particles of respirable size.

Massachusetts Right To Know List:

Carbon black 1333-86-4 0.1 to 1.0 %
Titanium dioxide 13463-67-7 1 to 5 %
Limestone 1317-65-3 10 to 20 %

New Jersey Right To Know List:

Carbon black 1333-86-4 0.1 to 1.0 %
1,2-Propylene glycol 57-55-6 1 to 5 %
Titanium dioxide 13463-67-7 1 to 5 %
Limestone 1317-65-3 10 to 20 %

Pennsylvania Right To Know List:

Carbon black 1333-86-4 0.1 to 1.0 %
1,2-Propylene glycol 57-55-6 1 to 5 %
Titanium dioxide 13463-67-7 1 to 5 %
Limestone 1317-65-3 10 to 20 %

SARA 302 Extremely Hazardous Substances:
- None

Chemicals subject to SARA 313 Reporting:
- None

Country	Regulation	All Components Listed
Canada	Canada DSL	Yes
US	Toxic Substances Control Act	Yes

SECTION 16- OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

This is the latest version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Judgments as to the suitability of information herein for the purchaser's purposes are necessarily the purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, Advanced Coating Systems, extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purpose or for consequences of its use.

DATE ISSUED:	11/29/2018
REVISION:	11/29/2018
SDS REF. No:	Acu-Base Coat
REVISION INDICATOR:	1.2

For Your Protection: Advanced Coatings Systems, Inc. warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS OR SUFFICENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. THE USER SHOULD CONDUCT SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE. Liability of Advanced Coatings Systems, Inc. for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with proper shipping, handling, and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.

End of Material Safety Data Sheet