



MATERIAL SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	<u>ACU-FLEX: HYDRO</u>	
Product Composition/ Use:	Butyl rubber roof coating for concrete, metal, SPF, asphaltic and other substrates	
CAS Number:	Mixture	
Manufacturer Name:	Advanced Coating Systems, Inc.	
Street Address:	2230 Towne Lake Pkwy, Bldg.1000 Ste.150	
City:	Woodstock	State: GA Zip Code: 30189
Emergency Telephone:	INFOTRAC 24hrs, (800)535-5053	

SECTION 2- COMPOSITION AND INFORMATION ON INGREDIENTS

Components	Cas No.	% by Wt
Solvent Naphtha (Petroleum), Light	64742-89-8	55 max
Xylene	1330-20-7	15 max
Ethyl Benzene	100-41-4	3 max
Polymer	Mixture	35 max
Titanium Dioxide	13463-67-7	20 max
Preservative	Mixture	1 max
Benzene	71-73-2	0 – 100 ppm
Zinc Oxide	1314-13-2	5 max

SECTION 3- HAZARDS IDENTIFICATION

Effect of Overexposure:	
Skin	May be absorbed through the skin and cause skin irritation. Prolonged or repeated contact may dry the skin resulting in skin irritation and dermatitis.
Eyes	May cause mild eye irritation such as stinging, redness, & tearing.
Inhalation	Breathing large amounts of vapors or mists may be harmful. Symptoms include central nervous system excitement (giddiness, liveliness) followed by central nervous system depression (fatigue, dizziness, drowsiness, nausea, headache). Prolonged exposure may cause liver and kidney damage.
Ingestion	Moderately toxic. Swallowing large amounts may be harmful or fatal with central nervous system effects, which can include dizziness, loss of balance and coordination, unconsciousness, coma and even death.

SECTION 4- FIRST-AID MEASURES

Inhalation:	Move subject to fresh air. If not breathing then give artificial respiration. Get medical attention immediately.
Eye Contact:	Flush with water initially and remove contact lenses. Continue to flush eyes with large amounts of water for 15 minutes. Get medical attention immediately.
Skin Contact:	Remove contaminated clothing and shoes/boots. Wash affected area with large amounts of soap and water. Get medical attention immediately.
Ingestion:	If swallowed do not give anything to drink. Do not induce vomiting except under physician's instruction. Get medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION 5- FIRE AND EXPLOSION HAZARDS

Flash Point:	68°F
Autoignition Temperature:	Not established
Flammable Limits in Air:	
LEL:	1%
UEL:	7%
Extinguishing Media:	Water, carbon dioxide, foam or dry powder
Fire-Fighting Instructions:	Use water spray to cool non-involved containers.

Fire-Fighting Equipment: Wear SCBA with full-face piece operating in a positive pressure demand mode and full protective gear.
 Fire or Explosion Hazards: Do not mix with strong

SECTION 6- ACCIDENTAL RELEASE MEASURES

Spill / Leak Procedures: Shut off ignition sources including electrical equipment and flames. Contain spilled material. Absorb spills with inert material such as vermiculite, dry sand or earth. Place in a closed container but do not seal. Ventilate area to remove vapors.
 Disposal: Disposal should be in accordance with local, state, and federal regulations. The preferred method of liquid waste is incineration. Cured, solid waste is considered non-hazardous and may be land filled if allowed. Keep all waste from entering sewers, drains or waterways.

SECTION 7- HANDLING AND STORAGE

Handling Precautions: Avoid prolonged or repeated skin contact. Avoid breathing aerosols, spray mists, and heated vapors. Use only in well ventilated area. Use good personal and industrial hygiene practices. Keep container closed after each use.
 Storage Requirements: Recommended storage range is less than 90°F.

SECTION 8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation: Use local exhaust ventilation and engineering controls to keep vapors below the recommended exposure limits.
 Respiratory Protection: Wear suitable respirator (MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.
 Exposure Guidelines:

Xylene	ACGIH time weighted average	100 ppm
Xylene	ACGIH short term exposure limit	150 ppm
Xylene	OSHA Z1 permissible exposure limit	100 ppm
Xylene	NIOSH recommended exposure limit	435 mg/m3
Xylene	NIOSH short term exposure limit	150 ppm
Solvent Naphtha (Petroleum), Light Aliphatic	OSHA Z1 time weighted average	500 ppm
Solvent Naphtha (Petroleum), Light Aliphatic	ACGIH time weighted average	300 ppm
Solvent Naphtha (Petroleum), Light Aliphatic	ACGIH time weighted average	1,370 mg/m3
Toluene	ACGIH time weighted average	20 ppm
Toluene	OSHA time weighted average	200 ppm
Toluene	OSHA Permissible Exposure Limit (ceiling)	300 ppm
Ethyl Benzene	ACGIH time weighted average	100 ppm
Ethyl Benzene	ACGIH short term exposure limit	125 ppm
Ethyl Benzene	NIOSH recommend exposure limit	100 ppm
Ethyl Benzene	NIOSH recommended exposure limit	435 mg/m3
Ethyl Benzene	NIOSH short term exposure limit	125 ppm
Ethyl Benzene	NIOSH short term exposure limit	545 mg/m3
Ethyl Benzene	OSHA Z1 permissible exposure limit	100 ppm
Ethyl Benzene	OSHA Z1 permissible exposure limit	435 mg/m3
Benzene	ACGIH short term exposure limit	2.5 ppm
Benzene	OSHA short term exposure limit	5 ppm
Benzene	ACGIH time weighted average	0.5 ppm
Benzene	OSHA time weighted average	1 ppm

Protective Equipment: Impervious gloves, avoid all skin contact by covering as much of the exposed skin area as possible with appropriate clothing.
 Eye Protection: Chemical splash goggles (ANSI Z-87.1 or approved equivalent) and/or face shield. Have an eye wash station available.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
 Appearance and Odor: Viscous liquid
 Vapor Pressure: Not established
 Density (pounds per gallon): 7.5-7.9
 Water Solubility: Not soluble- reacts with water
 Boiling Point: 281-284°F
 Viscosity (cps): 2,000–3,000

% Volatile by Volume:	65-69%
Evaporation Rate:	Slower than ether
Volatile Organic Compounds:	less than 500 g/liter

SECTION 10- STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility:	Contact with water will cause this product to cure. Incompatible with acids, bases, and oxidizers
Hazardous Polymerization:	May polymerize
Hazardous Decomposition:	Will not occur if properly handled and stored. Reaction with water can create CO ₂ .

SECTION 11- TOXICOLOGICAL INFORMATION

Acute Oral Toxicity		
Solvent Naphtha (Petroleum), Light Aliphatic		LD50 Rat: > 8,000 mg/kg
Acute Inhalation Toxicity		
Solvent Naphtha (Petroleum), Light Aliphatic		LC50 Rat: 3,400 ppm, 4h
Acute Dermal Toxicity		
Solvent Naphtha (Petroleum), Light Aliphatic		LD50 Rat: > 4,000 mg/kg

SECTION 12- ENVIRONMENTAL INFORMATION

No information available

SECTION 13- DISPOSAL CONSIDERATIONS

Disposal:	Treat or dispose of waste material in accordance with all local, state, and federal requirements.
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SECTION 14- TRANSPORT INFORMATION

Product Name:	Acu-Flex: Hydro
Shipping Name:	N/A
Shipping Class:	Flammable Liquid UN1263

SECTION 15- REGULATORY INFORMATION

TSCA:	All components of this product are believed to be in compliance with the inventory listing requirements of the US Toxic Substances Control Act (TSCA) Chemical Substances Inventory.
California Prop. 65	WARNING! This product contains a chemical known in the State of California to cause cancer. BENZENE ETHYL BENZENE WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. TOLUENE BENZENE LACOLENE 20071
SARA Hazard Classification	Solvent Fire Hazard Acute Health Hazard Chronic Health Hazard
Right to Know	This product contains chemicals listed on one or more state Right to Know laws including but not limited to Massachusetts, New Jersey, and Pennsylvania. Benzene Toluene Ethyl Benzene Xylene

SECTION 16- OTHER USEFUL INFORMATION

Prepared by:	Chuck Johnson
Approved by:	Chuck Johnson
Approval Date:	April 28, 2009

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