

# Material Safety Data Sheet



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# MATERIAL SAFETY DATA SHEET

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier TUFFSEAL		[WHMIS Classification]		
Product Use Resin Mixture				
Manufacturer's Name Acrypave Manufacturing		Supplier's Name Acrypave Manufacturing		
Street Address 5696 CR 1143		Street Address 5696 CR 1143		
City Tyler		State Texas	City Tyler	State Texas
Postal Code 75704	Emergency Telephone 903.593.3743	Postal Code 75704	Emergency Telephone 903.593.3743	
Date MSDS Prepared September 25, 2012		MSDS Prepared By Apex Geoscience, Inc.	Phone Number 903.581.8080	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients ( <i>specific</i> )	CAS Number	Concentration
P(BAImMA)	25852-37-3	46.0-48.0%
Residual Monomers	Not required	
Aqua Ammonia	1336-21-6	{=0.3%
Water	7732-18-5	52.0-54.0%
Cement Powder		30%
Quartz Aggregate		70%

## SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Ingestion
<b>Emergency Overview:</b>					
Appearance –					
Form: Liquid					
Color: Gray					
Odor: Ammonia Odor					
<b>Hazard Summary –</b>					
CAUTION!					
INHALATION OF VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS.					
MAY CAUSE EYE/SKIN IRRITATION					

## SECTION 4 — FIRST AID MEASURES

Skin Contact
Wash with water and soap as a precaution. If skin irritation persists, contact a physician.
Eye Contact
Rinse with plenty of water. If eye irritation persists, consult a specialist.
Ingestion
Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

## SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions? N/A	
Means of Extinction Use extinguishing media appropriate for surrounding fire		
Flashpoint (°C) and Method Non-combustible	Upper Flammable Limit (% by volume) Non-combustible	Lower Flammable Limit (% by volume) Non-combustible
Autoignition Temperature (°C) Non-combustible	Explosion Data — Sensitivity to Impact Non-combustible	Explosion Data — Sensitivity to Static Discharge Non-combustible
Hazardous Combustion Products Non-combustible		
[NFPA] Non-combustible		

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures
Personal Precautions: Use personal protection equipment. Keep people away from and upwind of spill leak. Material can create slippery conditions.
Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.
Methods for cleaning up: Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for disposal.

## SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas. Further information on storage conditions: Keep from freezing – product stability may be affected.
Storage Requirements: Storage Temperature: 1-49C (34-120F) Other Data: Monomer vapors can be evolved when material is heated during processing operation. See section 8 for types of ventilation required.

## SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

COMPONENT	REGULATION	TYPE OF LISTING	VALUE
Aqua Ammonia		TWA	25 ppm
		STEL	35 ppm
	ACGIH	TWA	17mg/m3 25 ppm
	ACGIH	STEL	24mg/m3 35 ppm
	OSHA TRANS	PEL	35mg/m3 50 ppm

### Eye Protection:

*Safety Glasses with side-shields eye protection must be compatible with respiratory protection system employed.*

### Hand Protection:

*The glove(s) listed below may provide protection against permeation. (gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves.*

### Respiratory Protection:

*A respiratory protection meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. For airborne concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) ammonia/methylamine cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.*

## Protective Measures:

Facilities storing or utilizing this material should be equipped with an eyewash facility.

## Specific Engineering Controls (such as ventilation, enclosed process)

Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) the point of vapor evolution. Refer to the current edition of *Industrial Ventilation: A Manual of Recommended Practice* published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use and maintenance of exhaust systems.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odor and Appearance Ammonia Odor, Gray Color	Odor Threshold (ppm) Not applicable
Specific Gravity Not application	Lower Explosion Limit Not applicable	Upper Explosion Limit Not applicable/Dilutable
Evaporation Rate 52-54%	Boiling Point (° C) 100C (212F) Water	Flash Point Non Combustible
pH 9.3	Dynamic Viscosity {1.00 Water	Water Solubility 5.000-55.000 mPa.s

## SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under what conditions? Not applicable
Incompatibility with other Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones? Not applicable
Polymerization:	Product will not undergo polymerization.	

## SECTION 11 — TOXICOLOGICAL INFORMATION

No data is available for this material. The information is based on profiles of compositionally similar materials.

<b><u>Acute Oral Toxicity</u></b>
LD50 rat > 5,000 mg/kg
<b><u>Acute Dermal Toxicity</u></b>
LD50 rabbit > 5,000 mg/kg
<b><u>Skin Irritation</u></b>
Rabbit – may cause transient irritation
<b><u>Eye Irritation</u></b>
Rabbit – no eye irritation

## SECTION 12 — ECOLOGICAL INFORMATION

There is no data available for this product.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### Waste Disposal

Environmental precautions: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Disposal: Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state and federal regulations.

## SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information	
Transportation classifications may vary by container volume and may be influenced by region or county variations in regulations.	PIN
TDG	[DOT] Not regulated for transport
[IMO] Not regulated (Not dangerous for transport)	[CAO]

## SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification] This product is not a 'controlled product' under the Canadian Workplace Hazardous Materials Information System.  SARA TITLE III: Section 311/312 Categorizations (40CFR370): This product is not a hazardous chemical under 29CFR 191-1200, and therefore is not covered by Title III of SARA.  SARA Title III: Section 313 Information (40CFR302.4) This product does not contain a chemical which is listed in Section 313 at or above the minimal concentrations.	[OSHA] This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200)  [Pennsylvania] Any material listed as "Non Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information on Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right to Know Act.
[CERCLA] Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA Title III Section 304.	[TSCA] All components are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act, Chemical Substance Inventory

## SECTION 16 — OTHER INFORMATION

HIRD Rating	Health	Fire	Reactivity
HMIS	1	0	0

ACIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl Acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL)
TLV	Threshold Limit Value
TWA	Average (TWA)
I	Bar denotes a revision from prior MSDS

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.