


SECTION 1 – IDENTIFICATION

Product Name: EchoMix [®] Recommended Use: Mix both parts with water as instructed to form Ultrasonic Couplant, Operating Range 32° to 120°F (0° to 50° C) Restrictions on Use: For Industrial Use Only	Manufacturer: Echo Ultrasonics [®] LLC 774 Marine Drive, Bellingham, WA 98225; 360-671-9121 www.echoultrasonics.com Emergency: US: 1-800-255-3924 Outside US: +1-813-248-0585
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SECTION 2 – HAZARDS

General Information:	Not hazardous by OSHA HazCom 2012 Criteria Combined with water as directed, this product has been formulated to be benign. The information in this Safety Data Sheet concerns the concentrated, dry ingredients.	
Emergency Overview:	PART “A” Color: White to off-white Physical State: Powder Odor: Mild Hazards: May cause allergic skin reaction in sensitive individuals.	PART “B” 
	Potential Health Hazards: Slippery when mixed with water. Eye: Powder may cause irritation or corneal injury due to mechanical action. Skin: Essentially nonirritating Inhalation: No adverse effects from occasional inhalation. Ingestion: Low toxicity, no harmful effects anticipated.	Color: White to off-white Physical State: Powder Odor: Odorless to Mild Eye: Dust may cause irritation or corneal injury due to mechanical action. Skin: No irritation expected to intact skin. Inhalation: Dust may irritate throat. Ingestion: Potentially harmful if ingested in large quantities (>1 packet) by adults. If a child ingests any portion of packet B, consult a physician. Symptoms include nausea, headache, chills and general weakness. Overall toxicity is estimated to be low. LD ₅₀ in rats; 4,000 mg/kg body weight

SECTION 3 – COMPOSITION/INGREDIENTS

Component	CAS #	WT %
Polymer (cellulose)	9004-34-6	~70 %
Corrosion Inhibitor (borax)	1303-96-4	<30 %
Sodium Molybdate	7631-95-0	<5 %

SECTION 4 – FIRST-AID MEASURES

General Information:	When combined with water as directed, this product has been formulated to be benign. To avoid irritation, use good industrial hygiene when mixing to avoid getting powders into open wounds or on mucus membranes.	
Eye:	PART “A” Flush eyes with water to rinse away particles that can cause irritation or abrasion.	PART “B” Flush eyes with plenty of water. Remove contacts after 1-2 minutes and continue flushing for several minutes.
	Skin: Brush off dry powder. Rinse residue with water. Not normally a concern.	Brush off dry powder. Rinse away residue with water. Move to fresh air. Consult physician if effects occur. If conscious, give several glasses of water or milk and induce vomiting by touching finger to back of throat. Seek medical attention.
Inhalation:	No medical treatment necessary.	
Ingestion:	See above instructions	

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Equipment: All standard extinguishing agents including water, dry chemical and carbon dioxide. Note that residue from mixing with water may be slippery.

Specific Hazards from Combustion: During a fire, smoke may contain the original material in addition to combustion products, which may be toxic or irritating. Combustion products may include and are not limited to carbon monoxide and carbon dioxide.

Unusual Hazards: None

Recommendations: Keep people away. Soak thoroughly with water to cool and prevent re-ignition. Fight fire from a safe distance with adequate ventilation, or wear positive pressure self-contained breathing apparatus and protective clothing. Material is slippery when wet.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Spilled material may cause a slipping hazard.

Emergency Procedures: Keep unnecessary people away.

Containment Procedures: Avoid creating airborne dust.

Cleanup Procedures: Sweep or shovel spilled material into containers with a minimum of dusting. Avoid use of water because material is slippery when wet.

SECTION 7 – HANDLING AND STORAGE

General Handling: Keep away from heat, sparks, or flame. Avoid contact with skin and eyes. Do not breathe product dusts. Exercise good personal hygiene and good housekeeping practices. Wash after handling. Store in original closed containers in a cool, dry area, preferably between 5 – 35° C (40 - 95° F)

Recommendations: Keep away from children and adults with dementia.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Permissible Exposure Limits: OSHA PEL = 15 mg/M³ total dust, which is unlikely to be produced due to small package size.

Engineering Controls: Avoid high concentrations of airborne dust by using mechanical ventilation if needed.

Personal Protection:
Eye: Use safety glasses if there is a possibility for exposure.
Skin: Wear gloves if sensitive to any listed ingredients.
Respiratory: Wear NIOSH-approved dust respirator if conditions are dusty, or if adverse effects are experienced.
Additional: It is good general practice to provide eyewash stations or rinse bottles.

Special Requirements: None

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder
Odor: Mild to none
Odor Threshold: No data
Solubility: Part A = 100% in water, Part B=15-20% in water
pH: ~9 when mixed with water as directed
Viscosity: 20,000 – 25,000 CPS when mixed as directed
Flammable Limits: Upper: No data; Lower: No data
Vapor Pressure and or Density: Not applicable
Relative Density: Part A = No data, Part B = 1.9 (water = 1)
Melting Point: Part A = No data, Part B = 815° C (1,500° F)
Freezing/ Boiling point: Not applicable
Evaporation Rate: Not applicable
Flammability: Avoid temperatures over 266°F (130°C): not flammable by WHMIS/OSHA/NOM-018-STPS-2000 criteria
Flash Point: No data
Auto-Ignition/ Decomposition Temperature: No data

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions
Chemical Stability: Stable under normal conditions
Potential Hazards: Part B - can react explosively if heated in the presence of zirconium
 Avoid temperatures above 130° C (266° F) to avoid decomposition. Avoid sparks or flame.
 Part A – avoid strong oxidizers, strong acids, strong bases
Conditions to Avoid:
Incompatible Materials: None known
Hazardous Polymerization/ decomposition: None known

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes and/or Effects of Exposure: See section 2
Immediate: See section 2
Delayed or Chronic Symptoms: No data
Carcinogenicity: No data
Other: Part A has low/no chronic, developmental, reproductive, and/or genetic toxicity.
 Part B has no specific data, but general low toxicity in similar industrial formulations.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicology Data: Not expected to be acutely toxic to aquatic organisms.
 No appreciable biodegradation is expected.
Environmental Persistence/Degradation: No bioaccumulation is expected.
Bioaccumulation Potential: Not expected.
Soil to Groundwater Motility: None expected.

SECTION 13 – DISPOSAL CONSIDERATIONS

General Information: Do not dump into sewers, on the ground, or into any body of water. Disposal practices to be in compliance with all federal, state, and local laws / regulations.
Disposal Containers: Any
Disposal Methods: Landfill
Physical/ Chemical properties affecting disposal: None
Sewage Disposal: Small quantities (<1 packet) generally permissible
Special precautions for landfills or incinerators: None

SECTION 14 – TRANSPORT INFORMATION

UN Number and/or Proper Shipping Name: Not assigned
Transport Hazard Class; Packing Group: None
Environmental Hazards or Special Precautions: None
Bulk Transport Guidance: None
Special Precautions: Not restricted, not regulated, not hazardous & not dangerous to transport by air by IATA.

SECTION 15 – REGULATORY INFORMATION

Regulatory Information not included elsewhere: **TSCA Inventory:** All ingredients listed
CEPA: All ingredients listed on DSL
Section 311 SARA Title III/CERCLA
Immediate (acute): Yes
Delayed (chronic), Fire Hazard or Reactive: No
Sudden Release of Pressure: No
SARA 313
Not hazardous by OSHA HazCom 2012 criteria nor listing under California Proposition 65.

SECTION 16 – OTHER INFORMATION

SDS Preparation Date: 12 Dec 2012
Last Revision: 18 March 2020
Changes from Last Revision: Annual Review
Other Information: None

All information herein is provided in good faith and believed to be accurate and reliable. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ according to location. It is the buyer's/user's responsibility to ensure that this product is used in compliance with all federal, state, and local laws.