

**SECTION 1 – IDENTIFICATION**

<b>Product Name:</b> Echo Z+ <b>Recommended Use:</b> Industrial Ultrasonic Couplant 0° to 200°F (-18° to 93°C) <b>Restrictions on Use:</b> For Industrial Use Only	<b>Manufacturer / Distributor:</b> Echo Ultrasonics® LLC 774 Marine Drive, Bellingham, WA 98225; 360-671-9121 <b>Emergency:</b> US: 1-800-255-3924 Emergency: Outside US: +1-813-248-0585
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**SECTION 2 – HAZARDS**

**Hazard Status:** Not hazardous by OSHA 2012 Criteria. Hazardous in case of eye contact (irritant) or ingestion, or inhalation.  
**Hazards:** Slippery  
**Eye:** May cause irritation.  
**Potential Health Hazards:** **Skin:** Extended contact may cause irritation in sensitive individuals. The substance may be toxic if ingested

**Label Elements according to OSHA HazCom 2012:**



Contains the mineral Borax which if ingested (eaten) in significant quantity is toxic and may cause reproductive damage. Keep away from children and persons with dementia

**SECTION 3 – COMPOSITION/INGREDIENTS**

Component	CAS #	WT %
1,2,3 trihydroxypropane	56-81-5	60%
Sodium Tetraborate:	1303-96-4	40%

**SECTION 4 – FIRST-AID MEASURES**

	<b>Symptoms/Effects</b>	<b>Treatment Recommendations</b>
<b>Eyes:</b>	Slight irritation	Flush with water holding eyelids apart. Get medical attention if irritation or other symptoms occur.
<b>Skin:</b>	None expected	Wash with soap and water. Get medical attention if irritation develops or persists.
<b>Ingestion:</b>	Not Available	DO NOT induce vomiting unless directed to do so by medical personnel. Loosen tight clothing; get medical attention if symptoms appear.

**SECTION 5 – FIRE-FIGHTING MEASURES**

**Flammability:** May be combustible at high temperatures  
**Suitable Extinguishing Equipment:** During a fire, smoke may contain the original material in addition to combustion products, which may be irritating. Combustion products may include and are not limited to carbon monoxide and carbon dioxide.  
**Specific Hazards from Combustion:**  
**Recommendations:** Keep people away. Fight fire from a safe distance with adequate ventilation, or wear positive pressure self-contained breathing apparatus and protective clothing. Using water can cause frothing with increase of fire intensity.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Spills may be slippery. Prevent entry into spill area by unauthorized persons.  
**Emergency Procedures:** Sprinkle inert, non-slip material onto spill if it cannot be cleaned up immediately by diluting with water and mop up.  
**Containment Procedures:** Minimize entry of material into sewers and drainage systems. Absorb spill with inert material (earth, clay, commercial absorbent for oil) then place into container for disposal. Do not use combustible material (such as sawdust) as an absorbent.

**SECTION 7 – HANDLING AND STORAGE**

**Precautions:** Eye contact should be avoided as a general industrial practice. Gloves are not required, but may be desirable for repeated or long term contact. Wearing eye protection is recommended. Wash hands and contaminated skin after handling.  
**Recommendations:** Store in original containers above 64°F and below 130°F.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Permissible Exposure Limits:** None established  
**Engineering Controls:** When used indoors on a hot surface, control fumes with local exhaust ventilation.  
**Personal Protection:** **Eyes:** Use safety glasses if there is a possibility for exposure.  
**Skin:** Wear impervious gloves as needed.  
**Special Requirements:** None



**SAFETY DATA SHEET**  
**Echo Z+ High Acoustic-Impedance**  
**Ultrasonic Couplant**

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Colorless  
**Odor:** Mild characteristic  
**Molecular Weight:** Unknown  
**Specific Gravity:** 1.5 (Water = 1)  
**Vapor Density:** Unknown  
**Melting point:** N/A  
**Flash Point:** 300° F (149°C) Closed Cup  
**Auto-Ignition Temperature:** 650°F (343°C)  
**Solubility:** Miscible in cold water, hot water and alcohol.

**SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity:** Stable  
**Chemical Stability:** Stable  
**Potential Hazards:** No significant hazards expected.  
**Conditions to Avoid:** Avoid contact with incompatible materials, excess heat and ignition  
**Incompatible Materials:** Highly reactive with oxidizing agents  
**Hazardous Polymerization:** Will not occur.  
**Reactivity:** Hygroscopic

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** See section 2  
**Effects of Exposure:** See section 2  
**Immediate:** See section 2  
**Delayed, Chronic, Symptoms:** May cause damage to eyes; hazardous in case of ingestion.  
Low hazard of acute potential health effects for normal industrial handling or normal workplace conditions  
**Other Toxic effects on Humans:**  
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**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** No data  
**Biodegradation Products:** No data  
**Soil to Groundwater Motility:** No data  
**Other Adverse Effects:** No data

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**General Information:** Dispose in accordance with all federal, state, and local regulations.  
Use clean, impervious container.  
**Disposal Containers, Methods:** Landfill, incineration

**SECTION 14 – TRANSPORT INFORMATION**

**UN Number:** Not applicable  
**UN Proper Shipping Name:** Not applicable  
**Transport Hazard Class:** Not hazardous  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable  
**Bulk Transport Guidance:** Not applicable  
**Special Precautions:** Not restricted, not regulated, not hazardous & not dangerous to transport by air by IATA.

**SECTION 15 – REGULATORY INFORMATION**

**HMIS (USA):** Health Hazard: 1  
Fire Hazard: 1  
Reactivity: 0  
Personal Protection: g  
**National Fire Protection Assoc. (USA):** Health: 1  
Flammability: 1  
Reactivity: 0  
Protective Equipment: Gloves. Lab coat. Vapor respirator when ventilation is inadequate. Safety glasses

**SECTION 16 – OTHER INFORMATION**

**SDS Preparation Date:** 28 September 2016  
**Last Revision:** 06/10/2021  
**Changes from Last Revision:** Modified CAS #  
**Other Information:**

*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.*