



# SAFETY DATA SHEET

## Echo 8 ZH™ Flow Metering and Long Term Monitoring Ultrasonic Couplant

### SECTION 1 – IDENTIFICATION

<b>Product Names:</b> Echo 8 ZH™ <b>Recommended Use:</b> Industrial Ultrasonic Couplant Short Term Monitoring: -45° to 750°F (-42° to 398°C) Long Term Monitoring: -45° to 400°F (-42° to 204°C) <b>Restrictions on Use:</b> For Industrial Use Only	<b>Manufacturer:</b> Echo Ultrasonics® LLC 774 Marine Drive, Bellingham, WA 98225; 360-671-9121 <b>Emergency:</b> US: 1-800-255-3924 <b>Emergency:</b> Outside US: +1-813-248-0585
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### SECTION 2 – HAZARDS

**Hazard Status:** Echo 8ZH is not considered hazardous by OSHA HazCom 2012 Criteria  
**Pictograms required:** None  
**Color:** White  
**Physical State:** Paste, white  
**Emergency Overview:** **Odor:** None  
**Hazards:** Slippery  
**Potential Health Hazards:** **Eye:** May cause slight irritation.  
**Skin:** Extended contact may cause slight irritation in sensitive individuals.  
**Inhalation:** No adverse effects expected.  
**Ingestion:** No adverse effects expected.  
**LABEL ELEMENTS ACCORDING TO OSHA HazCom 2012: NONE APPLICABLE**  
**This is not a hazardous material as defined in the OSHA Hazard Communication Standard**

### SECTION 3 – COMPOSITION/INGREDIENTS

Chemical/ Common Name	CAS #	WT %	Hazard Limit
DiMethyl Siloxanes and Silicones	63148-62-9	>80%	Not Applicable
Dioxide	112945-52-5	<5%	Not Applicable
Metal Oxides	Trade Secret	<30%	Not Applicable
No known impurities			

### SECTION 4 – FIRST-AID MEASURES

**General Information:** This product has been formulated to be benign. During use on hot surfaces, product may become hot. Take precautions to avoid burns.

<b>Eyes:</b>	<b>Symptoms/Effects:</b> Slight irritation	<b>Treatment Recommendations:</b> Flush with water holding eyelids apart. Get medical attention if irritation or other symptoms occur. Wash with soap and water. Get medical attention if irritation develops or persists.
<b>Skin:</b>	None expected	
<b>Inhalation:</b>	No irritation expected	Low ingestion hazard
<b>Ingestion:</b>	None expected	

### SECTION 5 – FIRE-FIGHTING MEASURES

**Suitable Extinguishing Equipment:** CO2, dry chemical, alcohol foam. Avoid high-pressure water jet.  
**Specific Hazards from Combustion:** 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, carbon dioxide and metal oxides.  
**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. Minimize entry of material into sewers and drainage systems.  
**Containment Procedures:** 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:** Although this material does not present a significant skin or eye concern, skin and 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. Store in original containers.  
**Recommendations:** Keep away from children and adults with dementia.

### 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. Wear impervious heat insulated gloves when working with hot material.  
**Special Requirements:** None

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White paste  
**Odor:** Mild to none  
**Odor Threshold:** No data  
**Solubility:** Insoluble in water  
**Viscosity:** Paste, Greater than 500,000 cP  
**Relative Density:** 2.20



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**Freezing Point:** 0°F (-17.8°C)  
**Evaporation Rate:** Not determined  
**Flammability:** Not classified as a flammability hazard  
**Flash Point:** 600° F (315°C)  
**Partition Coefficient:** No data  
**Auto-Ignition Temperature:** 800° F (426° C)  
**Decomposition Temperature:** No data

**SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity:** Stable  
**Chemical Stability:** Stable  
**Potential Hazards:** No significant hazards expected.  
**Conditions to Avoid:** None  
**Class of Incompatible Materials:** Oxidizing agents  
**Hazardous Polymerization:** Will not occur.  
**Hazardous Decomposition Products:** Formaldehyde

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** See section 2  
**Effects of Exposure:** See section 2  
**Immediate:** See section 2  
**Delayed, Chronic, Symptoms:** No data  
**Carcinogenicity:** No data  
**Other:** Skin irritation, human: 48 hour patch test of main ingredient – not irritating

**SECTION 12 – ECOLOGICAL INFORMATION**

**Toxicology Data:** Not available  
**Bioaccumulation Potential:** None expected  
**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**

**Regulatory Information not Included Elsewhere:** **TSCA Inventory:** All ingredients listed or exempt from listing  
**CEPA:** All ingredients listed on DSL  
**Section 311 SARA Title III/CERCLA**  
**Immediate (acute):** No  
**Delayed (chronic):** No  
**Fire Hazard:** No  
**Reactive:** No  
**Sudden Release of Pressure:** No  
**SARA 313**  
This product does not contain chemicals which require reporting nor listing under California Proposition 65.

**SECTION 16 – OTHER INFORMATION**

**SDS Preparation Date:** 4 March 2014  
**Last Revision:** June 5, 2023  
**Changes from Last Revision:** Update 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.*