SAFETY DATA SHEET



EchoTherm Extreme™

High Temperature Ultrasonic Couplant

SECTION 1 – IDENTIFICATION

Product Name: EchoTherm Extreme™ Recommended Use: Industrial Ultrasonic Couplant Operating Range: -40°F to 1250°F (-40°C to 675°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

		SFC	TION 2 – HAZARDS			
General Inform	ation: Hazard Status		s by OSHA HazCom 2012	Criteria		
			Required: None			
		Color: Off wh				
		Physical Sta	te: Light grease			
		Odor: None				
	Emergency Overview	: Hazards: Eye	Hazards: Eye: May cause slight irritation.			
			Skin: No adverse effects expected.			
Pot	ential Health Hazards	: Inhalation: N	o adverse effects expected	d.		
		Ingestion: No	adverse effects expected			
			nts According to OSHA I			
		SECTION 3 – 0	COMPOSITION/INGREDIE	INTS		
Chemical/ Common Name		CAS #		WT %	Hazard Limit	
Perfluoropolyalkylether (PFPAE)		60164-51-4		>90%	Not Applicable	
Silicone Dioxide		7631-86-9		<5%	Not Applicable	
				No known imp	urities	
		SECTION 4	- FIRST-AID MEASURE	S		
General	This product as such	is not hazardous.	Inhalation of thermal dec	omposition products v	which occur at temperatures	
Information:) grams per application (test).	
	Symptoms/Effects		Treatment Recommend	ations		
Eyes:	Irritation, discomfort			eyelids apart. Get me	edical attention if irritation or	
-			other symptoms occur.			
Skin:	None expected		Wash with soap and wat	er.		
Inhalation:	None expected below	v 750°F (400°C)			00°C), remove to fresh air and	
			get medical attention if c	ough or other symptor	ms develop.	
Ingestion:	Low toxicity, unknow	n symptoms	Get medical attention if r	nore than 1 oz. ingest	ed by adult.	
			Keep away from children		entia.	
		SECTION 5 -	FIRE-FIGHTING MEASU	RES		
Suitable Extingu	ishing Equipment:	This product does	s not burn.			
		During a fire, smoke may contain thermal decomposition products including Hydrogen Fluoride				
		(HF), which is tox	ic.			
F		Fight fire from a safe distance and wear positive pressure self-contained breathing apparatus				
Fire Fighting Procedures: a		and protective clothing.				
Dem		ECTION 6 – ACCIDENTAL RELEASE MEASURES Spills may be slippery. Prevent entry into spill area by unauthorized persons.				
Emergency Procedures: S					cea persons.	
		Sprinkle inert, non-slip absorbent material onto spill.				
		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.				
		SECTION 7	HANDLING AND STORA	CE.		
	Precautions:				oncern skin and eve contact	
		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				
			ninated skin after handling			
		above 750°F (400	ninated skin alter handling	. Avoid breathing Vap	ors nom nealed malenal	
-	Recommendations:		e conditions are required.			
Recommendations.		no special storage contations are required.				
	SECTION	8 – EXPOSURE	CONTROLS / PERSONA	L PROTECTION		
Permissible	e Exposure Limits:	None established				
		When used on a hot surface above 750°F (400°C), control fumes with local exhaust ventilation.				
		Eyes: Use safety glasses if there is a possibility for exposure.				
		Skin: Wear impervious heat insulated gloves when working with hot material.				
					(426 °C), use MIOSH/MSHA	
					smoke or fumes generated	
					spirator selection, use, and	
			respiratory protection pro			
		Z88.2) for all resp				
Sne		None	, , , , , , , , , , , , , , , , , , , ,			
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SECTION	9 – PHYSICAL AND CHEMICAL PROPERTIES			
Appearance:	Off white grease			
Odor:	None			
Odor Threshold:	No data			
Solubility:	Insoluble in water			
pH:	Neutral			
Viscosity:	12-13 mPa.s			
Flammable Limits:	Upper Explosive Limit: N/A			
	Lower Explosive Limit: N/A			
Vapor Pressure:	<0.001 Torr at 25°C			
Vapor Pessure: Vapor Density:	>1			
Specific Gravity:	1.85 (water = 1)			
Freezing Point:	-60°F (-15°C)			
Flammability:	Non-flammable by WHMIS/OSHA/NOM-018-STPS 2000 Criteria			
Flash Point:	Unknown			
Partition Coefficient:	N/A			
Auto-Ignition Temperature:	1300°F (704°C)			
Operating range	-40°F to 1250°F (-40°C to 675°C)			
Decomposition Temperature:	1.3% per 24 hours at 750°F (400°C)			
	TION 10 – STABILITY AND REACTIVITY			
Reactivity:	Stable			
Chemical Stability:	Stable			
Potential Hazards, Conditions to Avoid:	Product will not burn; however, in a fire or above the thermal decomposition			
rotential nazaras, contations to Avola.	temperature, fluorinated decomposition compounds (including Hydrogen Fluoride) are			
	produced.			
Incompatible Materials				
Incompatible Materials:				
Likely Routes and Effects of Exposure:	See section 2; Dermal ALD > 17,000 mq/kg (rabbit), oral LD 50 > 30,000 mg/kg (rat)			
Immediate:	See section 2			
Delayed, Chronic, Symptoms:	No data			
Carcinogenicity:	No data			
Other:	This substance is not expected to product toxic effects below the thermal decomposition			
	temperature.			
SEC	TION 12 – ECOLOGICAL INFORMATION			
	Toxicology Data: Oncorhynchus mykis >1000 mg/liter			
Environmental Persiste	ence/Degradation: Inert			
Bioaccum	nulation Potential: None expected			
Soil to Grou	undwater Motility: No data			
Other	Adverse Effects: No data			
SEC	TION 13 – DISPOSAL CONSIDERATIONS			
General Inforr	nation: Dispose in accordance with all federal, state, and local regulations.			
Physical, Chemical Properties Affecting Dis				
Disposal Containers, Me				
	CTION 14 – TRANSPORT INFORMATION			
UN Number and Proper Shipping Name:	Not applicable			
Transport Hazard Class:	Not applicable			
Packing Group:				
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.			
	TION 15 – REGULATORY INFORMATION			
Regulatory Information not included	TSCA Inventory: All ingredients listed or in compliance with the inventory			
elsewhere:	Section 311 SARA Title III/CERCLA			
	Immediate (acute): No			
	Delayed (chronic): No			
	Fire Hazard: No			
	Reactive: No			
	Sudden Release of Pressure: No			
	This product does not contain chemicals which require reporting, nor listing under			
	California Proposition 65.			
	SECTION 16 - OTHER INFORMATION			
SDS Preparation Date				
Last Revision				
Changes from Last Revisior				
Other Information	eved to be accurate and reliable. However, no warranty, express or implied, is given. Regulatory			

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 law and used as intended as an industrial nondestructive testing ultrasonic couplant.