



EchoTherm™ (paste, disc or strip)

High Temperature Ultrasonic Couplant

SECTION 1 – IDENTIFICATION

Product Name: EchoTherm™
Recommended Use: Industrial Ultrasonic Couplant
Operating Range: 200° to 1000°F (93° to 538°C)
Restrictions on Use: For Industrial Use Only

Manufacturer: Echo Ultrasonics® LLC
774 Marine Drive, Bellingham, WA 98225
360-671-9121 www.echoultrasonics.com

Australian Distributor: Russell Fraser Sales Pty Ltd
7/38 Waratah Street, Kirrawee, NSW 2232
02 9545 4433 www.rfsales.com.au
rfs@rfsales.com.au
Emergency Only Contact Australia: 000

SECTION 2 – HAZARDS

Hazard Status: Not hazardous by OSHA HazCom 2012 Criteria.

Color: Off white

Physical State: Light grease, solid strip or grease

Odor: None

Emergency Overview: **Hazards: Eye:** May cause slight irritation.

Skin: No adverse effects expected.

Potential Health Hazards: **Inhalation:** No adverse effects expected.

Ingestion: No adverse effects expected.

LABEL ELEMENTS ACCORDING TO OSHA HazCom 2012- NONE APPLICABLE

SECTION 3 – COMPOSITION/INGREDIENTS

Component	CAS #	WT %
Perfluoropolyalkylether	60164-51-4	>60%
Silicone Dioxide	7631-86-9	<5%
Polyaryletherketone	3164-16-3	>10%
PolyBenzimidazole	25928-81-8	<20%

SECTION 4 – FIRST-AID MEASURES

General Information: This product as such is not hazardous. Inhalation of thermal decomposition products which occur at temperatures over 750°F (400°C) at 1.5% / 24 hours are not expected to occur when this product is used in less than 20 grams per application in a ventilated area. For larger applications, see Personal Protection below.

Eyes: Irritation, discomfort

Symptoms/Effects

Treatment Recommendations

Flush with water holding eyelids apart. Get medical attention if irritation or other symptoms occur.

Skin: None expected

Wash with soap and water.

Inhalation: None expected below 750°F (400°C)

If exposed to excessive vapors above 750°F (400°C), remove to fresh air and get medical attention if cough or other symptoms develop.

Ingestion: Low toxicity, unknown symptoms

Get medical attention if more than 1 oz. ingested by adult.

Keep away from children and adults with dementia.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Equipment: Carbon oxidate, foam, water fog, dry chemical

Specific Hazards from Combustion: During a fire, smoke may contain thermal decomposition products including Hydrogen Fluoride (HF), which are toxic.

Fire Fighting Procedures: Fight fire from a safe distance and wear positive pressure self-contained breathing apparatus and protective clothing.

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 absorbent material onto spill.

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.

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. Avoid breathing vapors from heated material above 750°F (400°C).

Recommendations: No special storage conditions are required.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Permissible Exposure Limits: None established

Engineering Controls: When used in a reduced ventilation area (or within a building) on a hot surface above 750°F

Personal Protection: (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.

Special Requirements: None



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off white grease, beige strip or disc
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 Density:	>1
Specific Gravity:	1.85 (water = 1)
Freezing Point:	-60°F (-15°C)
Flammability:	Nonflammable by WHMIS/OSHA/NOM-018-STPS 2000 Criteria
Partition Coefficient:	N/A
Auto-Ignition Temperature:	1300°F (704°C)
Operating Range:	200°F to 1000°F (93°C to 538°C)
Decomposition Temperature:	1.3% per 24 hours at 750°F (400°C)

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:	Stable
Chemical Stability:	Stable
Potential Hazards, Conditions to Avoid:	In a fire or above the thermal decomposition temperature, fluorinated decomposition compounds (including Hydrogen Fluoride) are produced.
Incompatible Materials:	Relatively inert

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	See section 2
Effects of Exposure:	See section 2; Dermal ALD > 17,000 mg/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.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicology Data:	Oncorhynchus mykiss >1000 mg/liter
Environmental Persistence/Degradation:	Inert
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.
Disposal Containers, Methods:	Landfill

SECTION 14 – TRANSPORT INFORMATION

UN Number and 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	TSCA Inventory: All ingredients listed or in compliance with the inventory
Elsewhere:	Section 311 SARA Title III/CERCLA Immediate (acute): No Fire Hazard: No Delayed (chronic): 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:	15 January 2015 - original
Last Revision:	13 August 2020
Changes from Last Revision:	Revision of Section 3
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 law and used as intended as an industrial nondestructive testing ultrasonic couplant.