SAFETY DATA SHEET



EchoTherm TM (paste, disc or strip)

SECTION 1 - IDENTIFICATION

Product Name: EchoTherm Manufacturer: Echo Ultrasonics® LLC Recommended Use: Ultrasonic Couplant 774 Marine Drive, Bellingham, WA 98225 Restrictions on Use: For Industrial Use Only 360-671-9121 www.echoultrasonics.com

Operating Range: 700°F to 1000°F (371°C to 538°C) Emergency: US: 1-800-255-3924 Outside US: +1-813-248-0585

SECTION 2 - HAZARDS

Hazard Status: Not hazardous by OSHA HazCom 2012 Criteria.

Pictogram Required: None

Color: Off white

Physical State: Light grease, solid strip or disc

Odor: None **Emergency Overview:**

Hazards: Eye: May cause slight irritation.

Potential Health Hazards: Skin: No adverse effects expected.

Inhalation: No adverse effects expected. Ingestion: No adverse effects expected.

LABEL ELEMENTS ACCORDING TO OSHA HazCom 2012- NONE APPLICABLE

SECTION 3 - COMPOSITION/INGREDIENTS Chemical/ Common Name CAS# WT % **Hazard Limit** 60164-51-4 Perfluoropolyalkylether >60% Not Applicable Silicone Dioxide 7631-86-9 <5% Not Applicable Polyaryletherketone 3164-16-3 >10% Not Applicable PolyBenzlmidazole 25928-81-8 <20% Not Applicable No known impurities

SECTION 4 - FIRST-AID MEASURES

General This product as such is not hazardous. Inhalation of thermal decomposition products which occur at temperatures over 750°F (400°C)

Information: 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.

Symptoms/Effects Treatment Recommendations

Irritation, discomfort Flush with water holding eyelids apart. Get medical attention if irritation or other Eyes:

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 Low toxicity, unknown symptoms Get medical attention if more than 1 oz. ingested by adult. Ingestion: 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.

Sprinkle inert, non-slip absorbent material onto spill. **Emergency Procedures:**

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).

Incompatible Chemicals: None known

Recommendations: No special storage conditions are required

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Permissible Exposure Limits: None established Threshold Value Limits: None established

Engineering Controls: When used in a reduced ventilation area (or within a building) on a hot surface above 750°F (400°C), control

fumes with local exhaust ventilation.

Personal Protection: Eyes: Use safety glasses if there is a possibility for exposure. Skin: Wear impervious heat insulated gloves when working with hot material.

Special Requirements:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off white grease Odor: None

No data Odor Threshold: Solubility: Insoluble in water pH: Neutral Viscosity: 12-13 mPa.s

Upper Explosive Limit: N/A Flammable Limits: Lower Explosive Limit: N/A

Vapor Pressure: <0.001 Torr at 25°C Vapor Density: Specific Gravity: 1.85 (water = 1)Freezing Point: -60°F (-15°C)





EchoTherm™

(paste, disc or strip)

Flash Point: 1050°F (570°C)

Flammability: Nonflammable by WHMIS/OSHA/NOM-018-STPS 2000 Criteria

Partition Coefficient: N/A

Auto-Ignition Temperature:
Operating Range:
Decomposition Temperature:

Operating Range:
Decomposition Temperature:

Operating Range:
130°F (371°C to 538°C)
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 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.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicology Data: Oncorhynchus mykis >1000 mg/liter

Environmental Persistence/Degradation: Inert

Bioaccumulation Potential: Non 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 Elsewhere: TSCA Inventory: All ingredients listed or in compliance with the inventory

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: January 17, 2022

Changes from Last Revision: Annual Review

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.