

## **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** 

Not hazardous by OSHA HazCom 2012 Criteria. Hazard Status:

Color: Off white

Physical State: Light grease

Odor: None

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

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

CAS# Component WT% Perfluoropolyalkylether (PFPAE) 60164-51-4 >60% Silicone Dioxide 7631-86-9 <5% Polyaryletherketone 3164-16-3 <40%

**SECTION 4 - FIRST-AID MEASURES** 

General This product as such is not hazardous. Inhalation of thermal decomposition products which occur at temperatures Information: 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.

Symptoms/Effects **Treatment Recommendations** 

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

other symptoms occur.

Skin: Wash with soap and water. None expected

If exposed to excessive vapors above 750°F (400°C), remove to fresh air and Inhalation: None expected below 750°F (400°C)

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** 

Although this material does not present a significant skin or eye concern, skin and eye contact Precautions:

> 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.

Respiratory: Above 800°F (426 °C) in restricted ventilation environments, use MIOSH/MSHA approved air purifying respirator as needed to control exposure to smoke or fumes generated during use. Consult with respirator manufacturer to determine respirator selection, use and limitations. Follow respiratory protection program requirements (OSHA 1910.134 and ANSI

Z88.2) for all respirator use.

**Special Requirements:** None



**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 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:
Operating Range:
Decomposition Temperature:
Greater than 1300°F (704°C)
700°F to 1000°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 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 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 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: June 13, 2017

Changes from Last Revision: Modified Emergency Contact Information

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.