SAFETY DATA SHEET



EchoTherm Extreme™

SECTION 1 – IDENTIFICATION

Product Name: EchoTherm ExtremeManufacturer: Echo Ultrasonics® LLCRecommended Use: Ultrasonic Couplant774 Marine Drive, Bellingham, WA 98225Restrictions on Use: For Industrial Use Only360-671-9121 www.echoultrasonics.com

SECTION 2 – HAZARDS

General Information: Hazard Status: Not hazardous by OSHA HazCom 2012 Criteria

Color: Off white

Physical State: Light 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

SECTION 3 – COMPOSITION/INGREDIENTS

 Component
 CAS #
 WT %

 Perfluoropolyalkylether (PFPAE)
 60164-51-4
 >90%

 Silicone Dioxide
 7631-86-9
 <5%</td>

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) are not expected to occur when this product is used in less than 20 grams per application (test).

Symptoms/Effects Treatment Recommendations

Eyes: Irritation, discomfort 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.

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

Year approximately formed to be the cough of the cough

Keep away from children and adults with dementia.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Equipment: This product does not burn.

Specific Hazards from Combustion: During a fire, smoke may contain thermal decomposition products including Hydrogen Fluoride

(HF), which is toxic.

Fight fire from a safe distance and wear positive pressure self-contained breathing apparatus

Fire Fighting Procedures: 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 eve concern, skin and eve 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 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.

Respiratory: In restricted ventilation environments, above 800°F (426 °C), 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

SAFETY DATA SHEET



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Off white grease Appearance:

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 <0.001 Torr at 25°C

Vapor Pressure:

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

Unknown Flash Point:

N/A **Partition Coefficient:**

Greater than 1300°F (704°C) **Auto-Ignition Temperature:** -40°F to 1250°F (-40°C to 675°C) Operating range

1.3% per 24 hours at 750°F (400°C) **Decomposition Temperature:**

SECTION 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

temperature, fluorinated decomposition compounds (including Hydrogen Fluoride) are

produced.

Relatively inert Incompatible Materials:

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes and 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: 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.

Physical, Chemical Properties Affecting Disposal: None **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 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: 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.