



Material Safety Data Sheet

Conforms to OSHA Hazard Communication Standard
(29CFR 1910.1200)

Section 1. Product and Company Information

Product Name: ENDARC
Use of Preparation: Dielectric Fluid for EDM
Chemical Description: Technical White Oil
CAS#: None
Effective Date: 3/1/2008
Date Printed: 5/15/2008

Manufacturer: Intersurface Dynamics, Inc.
 21 F. J. Clarke Circle
 P. O. Box 181
 Bethel, CT 06801
 Phone: 203-778-9995

Emergency number: INFOTRAC 24 Hour Phone
 U. S. A.: 1-800-535-5053
 Int'l.: 1-352-323-3500

Section 2. Composition/Information on Ingredients

Name	CAS #	% Weight	Warning Label / R Phrases
Technical White Oil	8042-47-5	100	R36, R38

Section 3. Hazard Identification

Ingestion: Ingestion is relatively non-toxic unless aspiration occurs. Product has laxative properties resulting in cramps and diarrhea.

Inhalation: No hazard expected at ambient conditions. Prevent misting or aerosolization. See section 8 for oil mist exposure limits.

Eye Contact: Minimally irritating to eyes upon direct contact.

Skin Contact: Not normally considered a hazard. Avoid prolonged unprotected contact.

Other: Preexisting skin condition may promote irritation.

Section 4. First Aid Measures

Eye Contact: Immediately flush with large amounts of water and continue until irritation subsides. Seek medical attention if irritation persists.

Skin Contact: Wash with soap and water, dry thoroughly, apply hand cream. Remove contaminated clothing.

Inhalation: Remove to fresh air

Ingestion:

DO NOT induce vomiting. Avoid aspiration, seek medical attention.

Note to Physician: Treat symptomatically. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to possible overexposure to materials other than this product.

Section 5. Firefighting Measures

Flash Point: 242 degrees F COC
Autoignition Temp: 428 degrees F ASTM E-659
Upper Flammable Limit: In air % by volume 6.0
Lower Flammable Limit: In air % by volume 1.1
Extinguishing media: Dry chemical, foam, CO2
Special Firefighting Procedures: Water may be used to cool container exposed to heat or flame. Use of water or foam may cause frothing. Dense smoke may be generated while burning.

Section 6. Accidental Release Measures

Spill or Leak: Contain spill, remove all sources of ignition, pick up with inert oil absorbent material. For large spills use pumps, shovels, buckets. Place spilled material in suitable container.

Personal protection in case of a large spill: Splash proof safety goggles. Protective gloves. Consult section 8.

Section 7. Handling and Storage

Precautions: In storage, keep container sealed and away from sources of ignition and oxidizing materials. When handling, avoid breathing vapors or mist. Avoid contact with eyes and prolonged repeated contact with skin. May be slippery when spilled.

Other: Fire extinguishers should be kept readily available.

Section 8. Exposure Control/Personal Protection

Exposure Limit

Values for Preparation: See below

Exposure Limit Values for Components:	Component	OSHA PEL	ACGIH	Other
	Technical White Oil as Oil Mist		TWA	TLV
		5 mg/m3	5 mg/m3	10 mg/m3

Exposure Controls: Personal Protective Equipment:

Eye/Face: Use splash-proof safety goggles.

Skin: Use impervious clothing (boots, gloves, aprons, etc.) over parts of body subject to exposure.

Respiratory: If vapor or mist is generated use ventilation adequate to maintain concentrations below exposure or flammable limits. Additionally, a NIOSH certified organic vapor respirator with a dust and mist filter may also be used.

Other: Eye bath, safety shower. Use of a protective hand cream or moisturizer is recommended.

Section 9. Physical and Chemical Properties

General Characteristics:

Odor:	Slight hydrocarbon
Color:	Clear
Appearance:	Liquid
pH:	No data
Boiling Point:	463 – 530 F
Freezing Point:	No data
Specific Gravity:	0.80 @ 60 degrees F
Vapor Pressure:	Less than 0.1 Hg @ 70 degrees F
Vapor Density:	(air = 1) 6.72
% Volatile:	100 ASTM D2369
Evaporation Rate:	(EE = 1) less than 1
Solubility in Water:	Insoluble
Combustibility:	See section 5
Auto-Ignition Temperature:	
Flash Point:	
Flammable Limits:	

Section 10. Stability and Reactivity

Stability:	Stable
Incompatibility:	Strong oxidizers and reducers
Thermal Decomposition:	Oxides of carbon
Hazardous Polymerization:	Will not occur

Section 11. Toxicological Information

Routes of

Exposure: Skin and Eye Contact, Inhalation of mist, and Ingestion

Acute Toxicity

for No Data

Preparation:

Acute Toxicity Data Available for Listed Components:	Component	Eye	Skin	Dermal	Oral
	No Data				

Chronic Toxicity:

Carcinogenicity: The International Agency for Research on Cancer (IARC) has concluded that highly refined mineral oils are Group 3 substances, 'not classifiable as to their carcinogenicity to humans' based on inadequate human and animal evidence. IARC has also concluded that there is no evidence for the carcinogenicity to experimental animals of white oils when administered by a route other than by intraperitoneal injection.

Section 12. Ecological Information

Ecotoxicity:	No data
COD of preparation @ 4% solution:	No data
Mobility:	No data
Persistence & Biodegradability:	No data
Other Adverse Effects	None Known

Section 13. Disposal Considerations

Waste Information: Dispose of according to Local, State and Federal regulations. Material may be landfilled or incinerated at an approved facility. Material should be recycled if possible.

Section 14. Transportation Information

DOT ID Number (UN #):	Not Regulated
Hazard Class:	Not Regulated
DOT Proper Shipping Name:	Not Regulated
Packing Group:	Not Regulated
Special Provisions:	None

Section 15. Regulatory Information Relative to Ingredients

SARA 302, Extremely Hazardous Substance:	None
SARA 304, CERCLA Hazardous Substance:	None
SARA 311, Hazards Characterization:	None
SARA 313, Toxic Chemical Release Reporting (Form R):	None

TSCA Inventory Status: All components in this product are listed or are exempt from the Toxic Substance Control Act (TSCA).

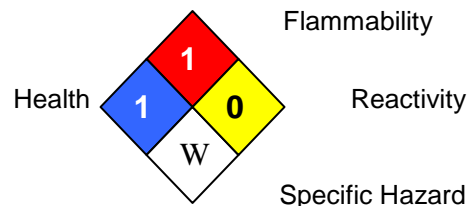
Section 16. Other Information

Hazardous Material Information System:

Hazardous Material Information System (U.S.A.)

Health:	0
Flammability:	1
Reactivity:	0
Personal:	A

National Fire Protection Association (U.S.A.)



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