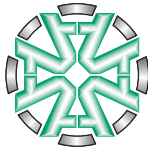




SECTION 1 – CHEMICAL AND COMPANY IDENTIFICATION

IDENTITY FluoroEtch [®] Safety Solvent		DATE PREPARED 7/21/2016	
SYNONYMS, CHEMICAL NAMES, COMMON NAMES Sodium Naphthalide in Glycol Ether		USE Fluoropolymer Etchant	
SUPPLIER'S NAME Acton Technologies, Inc.		EMERGENCY TELEPHONE NUMBER CHEMTREC: 1-800-424-9300 (Within Continental U.S.) CHEMTREC: 1-703-527-3887 (Outside U.S.)	
 ACTON TECHNOLOGIES		 ISO 9001:2008 Certification #110102.01 ISO 14001:2004 Certification #140102.01	
		AN ISO 9001 CERTIFIED COMPANY AN ISO 14001 CERTIFIED COMPANY	
NORTH AMERICAN OPERATIONS		EUROPEAN OPERATIONS	
100 THOMPSON STREET ■ P.O. BOX 726 PITTSTON, PENNSYLVANIA ■ 18640 ■ USA PHONE: 570.654.0612 FAX: 570.654.2810		ADARE ■ COUNTY LIMERICK IRELAND PHONE: +353.61.395.222 FAX: +353.61.395.333	VIA CARLO CATTANEO n° 76 ■ 25121 BRESCIA ■ ITALY PHONE: +39.030.2752447 FAX: +39.030.2750939
		ONLINE ORDERING: WWW.ACTONTECH.COM	

SECTION 2 – HAZARDS IDENTIFICATION

CLASSIFICATION:	Classification of the chemical: Green-black liquid. Naphthalene / ether odor This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom2012 and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015)
HAZARD CLASSIFICATION:	Flammable Liquid - Category 4 Skin Irritation - Category 2 Serious eye damage/eye irritation - Category 1 Reproductive Toxicity - Category 2 Carcinogenicity - Category 2 Specific Target Organ Toxicity, Single Exposure - Category 1 Specific target organ toxicity, single exposure - Category 3 respiratory tract irritation Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects
HAZARD PICTOGRAMS:	
SINGLE WORD:	DANGER!

SECTION 2 – HAZARDS IDENTIFICATION (CONTINUED)	
HAZARD STATEMENT(S):	Combustible liquid. Causes skin irritation. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Suspected of causing cancer. Causes damage to the blood system if inhaled or swallowed. May cause respiratory irritation. May cause drowsiness or dizziness.
PRECAUTIONARY STATEMENT(S):	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. - No smoking. Wash thoroughly after handling. Do not breathe mist or vapor. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IN CASE OF FIRE: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Dispose of contents/container in accordance with local regulation.
OTHER HAZARDS:	Other hazards which do not result in classification Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Burning produces obnoxious and toxic fumes.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS			
INGREDIENTS	COMMON NAMES AND SYNONYMS	CAS #	WT. %
Sodium naphthalide	Not available	3481-12-7	10.00–30.00
2-Methoxyethyl ether	Diethylene glycol dimethyl ether; Diglyme	111-96-6	70.00–90.00

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

SECTION 4 – FIRST AID MEASURES	
INHALATION:	Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention if symptoms persist.
SKIN CONTACT:	Remove contaminated clothing. Wash off immediately with soap and plenty of water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
EYE CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.
INGESTION:	Do NOT induce vomiting. Seek immediate medical attention/advice. Never give anything by mouth to an unconscious person.

SECTION 4 – FIRST AID MEASURES (CONTINUED)

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED	Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin. Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Suspected of damaging fertility or the unborn child. Suspected of causing cancer. Causes damage to the blood system if swallowed.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	Immediate medical attention is required. Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use water fog or fine spray, foams, carbon dioxide or dry chemical.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use a solid water stream as it may scatter and spread fire.
SPECIAL HAZARDS/ CONDITIONS OF FLAMMABILITY:	Combustible liquid and vapor. Vapors may be heavier than air and may spread along floors.
FLAMMABILITY CLASSIFICATION: (OSHA 29 CFR 1910.106)	Flammable Liquid - Category 4
HAZARDOUS COMBUSTION PRODUCTS:	Carbon oxides. Other unidentified organic compounds.
EXPLOSION DATA: SENSITIVITY TO MECHANICAL IMPACT/ STATIC DISCHARGE	May be sensitive to static discharge. Not expected to be sensitive to mechanical impact.
SPECIAL EQUIPMENT FOR FIRE-FIGHTERS:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
SPECIAL FIRE-FIGHTING PROCEDURES:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Restrict access to area until completion of clean up. Ensure clean up is conducted by trained personnel only. All persons dealing with clean up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
ENVIRONMENTAL PRECAUTIONS:	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:	Ventilate area of release. Stop leak if you can do so without risk. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).
SPECIAL SPILL RESPONSE PROCEDURES:	In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1 800-424-8802). US CERCLA Reportable quantity (RQ): None.

SECTION 7 – HANDLING AND STORAGE	
SAFE HANDLING PROCEDURES:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Do not breathe mist or vapor. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from heat and open flames. - No smoking. Use non-sparking tools. Keep away from acids and other incompatibles. Use caution when opening cap. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.
SAFE STORAGE REQUIREMENTS:	Store in a cool, dry, well-ventilated area. Keep container tightly closed. Store locked up. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
INCOMPATIBLE MATERIALS:	Strong oxidizing agents; Acids; Bases; Water

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION					
EXPOSURE LIMITS:	CHEMICAL NAME	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
	Sodium naphthalide	N/Av	N/Av	N/Av	N/Av
	2-Methoxyethyl ether	N/Av	N/Av	N/Av	N/Av
VENTILATION AND ENGINEERING MEASURES:	Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Local exhaust ventilation is preferred to prevent contaminant dispersion into work area. Use explosion-proof electrical and ventilating equipment.				
RESPIRATORY PROTECTION:	Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists.				
SKIN PROTECTION:	Wear protective gloves/clothing. Advice should be sought from glove suppliers.				
EYE / FACE PROTECTION:	Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.				
OTHER PROTECTIVE EQUIPMENT:	Emergency showers and eyewash facilities should be nearby. Wear long sleeved shirt and pants to minimize exposed skin. Wear sufficient clothing to prevent skin contact. Do not wear rings, watches or jewelry that could entrap the material against the skin. Other equipment may be required depending on workplace standards.				
GENERAL HYGIENE CONSIDERATIONS:	Do not breathe mist or vapor. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.				

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	Green black liquid	pH	alkaline
Odor	Naphthalene/ ether odor	Odor threshold	> 0.3 ppm (Naphthalene)
Initial Boiling point and Boiling Range	162°C / 324°F (Glycol ethers)	Relative Density/Specific gravity	1.04
Melting/Freezing point	-64°C/-83°F	Partition coefficient: n-octanol/water or Coefficient of water/oil distribution	N/Av
Vapor pressure	1.7 mm Hg @ 20°C / 68°F	Solubility in water	Approximately 90%
Vapor density	4.6	Other Solubility(ies)	N/Av

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)			
Volatile organic Compounds (VOC's)	N/Av	Evaporation rate (BuAe = 1)	0.36
Decomposition Temperature	N/Av	Volatiles (% by weight)	N/Av
Flame Projection Length	N/Ap	Auto ignition temperature	188°C / 370°F
Flash point	70°C / 158°F	Flammability (Solid/Gas)	N/Ap
Flash point (Method)	Cleveland Open Cup	Lower flammable limit (% by vol.)	1.5 (Glycol ethers)
Oxidizing properties	None known	Upper flammable limit (% by vol.)	17.4 (Glycol ethers)
Viscosity	N/Av	Explosive properties	Not explosive
Other physical/chemical properties	None known or reported by the manufacturer	Absolute pressure of container	N/Ap

SECTION 10 – STABILITY AND REACTIVITY	
REACTIVITY:	Not normally reactive.
CHEMICAL STABILITY:	Stable under the recommended storage and handling conditions prescribed.
POSSIBILITY OF HAZARDOUS REACTION:	Hazardous polymerization does not occur.
CONDITIONS TO AVOID:	Avoid excessive heat, sparks and open flame. Do not use in areas without adequate ventilation.
INCOMPATIBLE MATERIALS:	Incompatible materials (see Section 7).
HAZARDOUS DECOMPOSITION PRODUCTS:	None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION	
ROUTES OF EXPOSURE:	Inhalation: <i>YES</i> Skin Absorption: <i>YES</i> Skin & Eyes: <i>YES</i> Ingestion: <i>YES</i>
POTENTIAL HEALTH EFFECTS (ACUTE)	
Inhalation:	May cause respiratory irritation. May cause central nervous system effects. If higher concentrations are inhaled, additional symptoms may include coughing, shortness of breath, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
Ingestion:	May cause irritation of mouth, throat, and stomach. Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system.
Skin:	Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin. Harmful if absorbed through the skin.
Eyes:	Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.
POTENTIAL HEALTH EFFECTS (CHRONIC)	
	Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Repeated overexposure may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.
MUTAGENICITY:	Not expected to be mutagenic in humans.
CARCINOGENICITY:	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification Carcinogenicity- Category 2 Suspected of causing cancer. Naphthalene is classified as carcinogenic by IARC (Group 2B) and NTP (Group 2 - Reasonably anticipated).
REPRODUCTIVE EFFECTS & TERATOGENICITY:	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification Suspected of damaging fertility or the unborn child.

SECTION 11 – TOXICOLOGICAL INFORMATION (CONTINUED)

SENSITIZATION TO MATERIAL:	May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals. Not expected to be a respiratory sensitizer.
SPECIFIC TARGET ORGANS:	Eyes, skin, respiratory system, central nervous system, blood system, liver, brain and kidneys
	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity, Single Exposure - Category 1 Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) Causes damage to the blood system if inhaled or swallowed. May cause respiratory irritation. May cause drowsiness or dizziness. Not classified as a specific target organ toxicity - repeated exposure.
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:	Pre-existing skin, eye and respiratory disorders.
SYNERGISTIC MATERIALS:	Not available.
TOXICOLOGICAL DATA:	There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Ingredients	LC ₅₀ (4hr)	LD ₅₀	
	inh, rat	(Oral, rat)	(Rabbit, dermal)
Sodium naphthalide	N/Av	N/Av	N/Av
2-Methoxyethyl ether	N/Av	5400 mg/kg	N/Av

OTHER IMPORTANT HAZARDS:	None known or reported by the manufacturer
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SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY:	Contains material that may be harmful in the environment. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
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ECOTOXICITY DATA:		Toxicity to Fish		
Ingredients	CAS No	LC ₅₀ / 96h	NOEC / 21 day	M Factor
		Sodium naphthalide	3481-12-7	N/Av
2-Methoxyethyl ether	111-96-6	> 2000 mg/L (Golden orfe)	N/Av	None

		Toxicity to Daphnia		
Ingredients	CAS No	EC ₅₀ / 48h	NOEC / 21 day	M Factor
		Sodium naphthalide	3481-12-7	N/Av
2-Methoxyethyl ether	111-96-6	> 1000 mg/L (Daphnia magna)	N/Av	None

		Toxicity to Algae		
Ingredients	CAS No	EC ₅₀ / 96h or 72h	NOEC / 96h or 72h	M Factor
		Sodium naphthalide	3481-12-7	N/Av
2-Methoxyethyl ether	111-96-6	> 1000 mg/L (Green algae)	N/Av	None

SECTION 12 – ECOLOGICAL INFORMATION (CONTINUED)

PERSISTENCE AND DEGRADABILITY:	No data is available on the product itself.
BIOACCUMULATION POTENTIAL:	No data is available on the product itself.



Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Sodium naphthalide (CAS 3481-12-7)	N/Av	N/Av
2-Methoxyethyl ether (CAS 111-96-6)	-0.36 at 25 °C	3

MOBILITY IN SOIL:	No data is available on the product itself.
OTHER ADVERSE ENVIRONMENTAL EFFECTS:	No data is available on the product itself.

SECTION 13 – DISPOSAL CONSIDERATIONS

HANDLING FOR DISPOSAL:	Handle waste according to recommendations in Section 7. Do not cut, weld, drill or grind on or near this container.
METHODS OF DISPOSAL:	Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
RCRA:	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORT INFORMATION

REGULATORY INFORMATION	UN NUMBER	UN PROPER SHIPPING NAME	TRANSPORT HAZARD CLASS(ES)	PACKING GROUP	LABEL
49CFR/DOT	NA1993	Combustible liquid, n.o.s. (2-Methoxyethyl ether)	Combustible	III	
49CFR/DOT Additional information	Not regulated for road or rail shipment if packaged in non bulk containers (450 Litres or less each).				
TDG	None	Not regulated	Not regulated	None	
TDG Additional information	None				
SPECIAL PRECAUTIONS FOR USER:	Keep away from heat, sparks and open flame. - No smoking.				
ENVIRONMENTAL HAZARDS:	See ECOLOGICAL INFORMATION, Section 12.				
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:	Not available				

SAFETY DATA SHEET

SECTION 15 – REGULATORY INFORMATION

US FEDERAL INFORMATION: Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity (RQ) (40 CFR 117.302)	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Sodium naphthalide	3481-12-7	NL	N/Ap	N/Av	No	N/Ap
2-Methoxyethyl ether	111-96-6	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US STATE RIGHT TO KNOW LAWS: The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Sodium naphthalide	3481-12-7	No	N/Ap	No	No	No	No	No	No
2-Methoxyethyl ether	111-96-6	No	N/Ap	Yes	No	No	No	No	No

CANADIAN INFORMATION: WHMIS Classification: See section 2

INTERNATIONAL INFORMATION: Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Sodium naphthalide	3481-12-7	222-460-3	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
2-Methoxyethyl ether	111-96-6	203-924-4	Present	Present	(7)-1321; (2)-434	KE-27705	Present	HSR002964

SECTION 16 – OTHER INFORMATION

<p>LEGEND:</p>	<p>ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations CNS: Central Nervous System CSA: Canadian Standards Association DOT: Department of Transportation EPA: Environmental Protection Agency HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer IATA: International Air Transport Association ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods Inh: Inhalation LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable</p>	<p>N/Av: Not Available NFPA: National Fire Protection Association NIOSH: National Institute of Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit PMCC: Pensky Martens Closed Cup RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System</p>
<p>REFERENCES:</p>		
<p>PREPARATION DATE:</p>	<p>01/09/2017</p>	
<p>OTHER SPECIAL CONSIDERATIONS FOR HANDLING:</p>	<p>Provide adequate information, instruction and training for operators.</p>	

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