

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL MSDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

**PRODUCT NAME: LEISURE TIME FILTR CLEAN**

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Supplier</b> Leisure Time 1400 Bluegrass Lakes Parkway , Alpharetta, GA, 30004 United States	REVISION DATE: 12/10/2010 SUPERCEDES:
Telephone: +17705215999 Telefax: +17705215959 Web: www.poospacare.com	MSDS Number: 000000012526 SYNONYMS: CHEMICAL FAMILY: None DESCRIPTION / USE: None established FORMULA: None established

**Manufacturer**  
Advantis Technologies  
1400 Bluegrass Lakes Parkway  
Alpharetta, GA 30004  
United States of America

## 2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	<b>Corrosive to skin, Corrosive to eyes, Corrosive to mucous membranes</b>
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Routes of Entry:	Eyes Skin Ingestion Inhalation
Chemical Interactions:	None known.
Medical Conditions Aggravated:	Skin disorders, Eye disease

Human Threshold Response Data

Odor Threshold                      Not established for product.

Irritation Threshold                Not established for product.

**Hazardous Materials Identification System / National Fire Protection Association Classifications**

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	3	0	0	
NFPA	3	0	0	

Immediate (Acute) Health Effects

Inhalation Toxicity:                      Not expected to be an inhalation hazard at ambient conditions. Inhalation of mist or vapor may cause irritation and/or burns to the mucous membranes of the respiratory tract. Harmful if inhaled.

Skin Toxicity:                                Causes skin burns. Not expected to be toxic from dermal contact.

Eye Toxicity:                                 Causes eye burns.

Ingestion Toxicity:                         Causes digestive tract burns. Not expected to be toxic by ingestion.

Acute Target Organ Toxicity:             Corrosive to eyes, Corrosive to skin, May cause respiratory tract irritation.

Prolonged (Chronic) Health Effects

Carcinogenicity:                            This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic (Group I carcinogen).

Reproductive and Developmental Toxicity:    Not known or reported to cause reproductive or developmental toxicity.

Inhalation:                                    Prolonged or repeated exposure may cause more severe irritation. Prolonged or repeated inhalation may cause lung damage. Prolonged or repeated exposure may cause continuous bronchitis. May cause dental erosion.

Skin Contact:                                 Repeated dermal exposure may cause tissue destruction due to the corrosive nature of this product.

Ingestion:                                     There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure. The acute corrosivity of this product, makes chronic ingestion of significant amounts unlikely.

Eye Contact:                                 Prolonged contact may result in permanent damage. Corneal involvement or visual impairment is expected.

Sensitization:                                This material is not known or reported to be a skin or respiratory sensitizer.

Chronic Target Organ Toxicity: There are no known or reported target organ effects from chronic exposure.  
Supplemental Health Hazard Information : No additional health information available.

### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

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<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
HYDROCHLORIC ACID	7647-01-0	
SULFURIC ACID	7664-93-9	
Secondary alcohol ethoxylate	84133-50-6	
Citric Acid	77-92-9	

### **4. FIRST AID MEASURES**

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Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.

Skin Contact: IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.

Eye Contact: IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.

Ingestion: IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

Notes to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIRE FIGHTING MEASURES

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Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or mixture is not classified as pyrophoric., Not explosive

### Flammable Properties

Fire / Explosion Hazards: Will not burn  
Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Fire Fighting Instructions: Use water spray to cool unopened containers. In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

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Personal Protection for Emergency Situations: Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

### Spill Mitigation Procedures

Air Release: Keep people away from and upwind of spill/leak.  
Water Release: If the product contaminates rivers and lakes or drains inform respective authorities.soluble  
Land Release: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).Do not contaminate ponds, waterways or ditches with chemical or used container.  
Additional Spill Information : Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

## 7. HANDLING AND STORAGE

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Handling: Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing vapors, mist or gas.  
Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not freeze.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

### Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible., A NIOSH approved full-face air purifying respirator with acid gas cartridge and N-95 filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin Protection : Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Chemical resistant goggles must be worn. Face-shield

Protective Clothing Type: Neoprene, Butyl rubber, Natural rubber

General Protective Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

### Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
HYDROCHLORIC ACID	7647-01-0	ACGIH	2 ppm C
HYDROCHLORIC ACID	7647-01-0	OSHA Z1	5 ppm C 7 mg/m3 C
HYDROCHLORIC ACID	7647-01-0	NIOSH-IDLH	50 ppm
SULFURIC ACID	7664-93-9	ACGIH	0.2 mg/m3 TWA Thoracic fraction
SULFURIC ACID	7664-93-9	OSHA Z1	1 mg/m3 TWA
SULFURIC ACID	7664-93-9	NIOSH-IDLH	15 mg/m3

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid  
Form: No data.

Color:	No data.
Odor:	No data.
Molecular Weight:	None established
Specific Gravity :	1.08
	20 °C
pH :	0.0 - 2.0
Boiling Point:	100 °C 212 °F
Freezing Point:	
	not applicable
Melting Point:	
	not applicable
Density:	
Bulk Density:	no data available
Vapor Pressure:	no data available
Vapor Density:	> 1
Viscosity:	no data available no data available
Solubility in Water:	soluble in cold water
Partition coefficient n- octanol/water:	
Evaporation Rate:	<1
Oxidizing:	None established
Volatiles, % by vol.:	no data available
VOC Content	no data available
HAP Content	

## 10. STABILITY AND REACTIVITY

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Stability and Reactivity Summary:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Chemical Incompatibility:	Amines, Metals, alkalis
Hazardous Decomposition Products:	Carbon oxides, Sulphur oxides, nitrogen oxides (NOx), Hydrogen
Decomposition Temperature:	No data

## 11. TOXICOLOGICAL INFORMATION

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### Component Animal Toxicology

#### Oral LD50 value:

HYDROCHLORIC ACID    LD50    900 mg/kg    Rabbit

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**Mutagenicity:** Not known or reported to be mutagenic.

HYDROCHLORIC ACID	This chemical has been shown to be non-mutagenic based on a battery of assays.
SULFURIC ACID	This product has been tested for mutagenicity. Tests revealed both positive and negative results. Based on the weight of evidence, we judge this product NOT to be a mutagenic hazard.
Citric Acid	This product was determined to be non-mutagenic in the Ames assay. It was also shown to be negative in the Dominant lethal assay.

**Carcinogenicity:** This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic (Group I carcinogen). The following data is available for sulfuric acid:

HYDROCHLORIC ACID	The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans.
SULFURIC ACID	This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA. IARC evaluated several epidemiology studies where workers from a variety of industries had been exposed to a mixture of strong inorganic acid mists. IARC has concluded that there is sufficient evidence that occupational exposure to a mixture of strong inorganic-acid mists containing sulfuric acid is carcinogenic to humans (Group I carcinogen). Because cancer has not been observed in animals when they are exposed only to sulfuric acid mists, exposure to sulfuric acid by itself was not determined to be carcinogenic to humans.
Citric Acid	The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic.

## 12. ECOLOGICAL INFORMATION

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**Overview:** Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems., No data for product. Individual constituents are as follows:

**Ecological Toxicity Values for: HYDROCHLORIC ACID**

Mosquito fish	-	96 h LC50 = 282 mg/l
Bluegill	-	48 h LC50 = 3.6 mg/l
Fathead minnow (Pimephales promelas),	-	96 h LC50 = 21.9 mg/l
Common shrimp (Crangon crangon)	-	(nominal, renewal). 48 h LC50= 260 mg/l
Daphnia magna,	-	48 h EC50= 0.492 mg/l

**Ecological Toxicity Values for: SULFURIC ACID**

Mosquito fish	-	(nominal, static). 96 h LC50 42 mg/l
Bluegill sunfish	-	96 h LC50 10.5 mg/l
Common shrimp (Crangon crangon)	-	(nominal, renewal). 48 h LC50 70-80 mg/l
Daphnia magna,	-	24 h EC50 29 mg/l

**Ecological Toxicity Values for: Citric Acid**

Lepomis macrochirus (Bluegill sunfish)	-	(static). 96 h LC50 = 1,516 mg/l
Daphnia magna (Water flea)	-	72 h EC50 Approximately 120 mg/l

### **13. DISPOSAL CONSIDERATIONS**

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.**

**Waste Disposal Summary :**

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D002. As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.

**Potential US EPA Waste Codes :**

D002

## 14. TRANSPORT INFORMATION

Land (US DOT): UN1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, SULFURIC ACID) 8 II  
Water (IMDG): UN1760 CORROSIVE LIQUID, N.O.S., (HYDROCHLORIC ACID, SULFURIC ACID) 8 II Marine Pollutant: No

Air (IATA): UN1760 CORROSIVE LIQUID, N.O.S., (HYDROCHLORIC ACID, SULFURIC ACID) 8 II

Emergency Response Guide Number: ERG # 154

Transportation Notes: This product is regulated as a hazardous material under U.S. DOT 49 CFR 172.101.

EMS: F-A, S-B

## 15. REGULATORY INFORMATION

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### UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

### Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard  
Physical None

### Emergency Planning & Community Right to Know (40 CFR 355, App. A):

#### Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS\_SAR302 TPQ (threshold planning quantity) None established

#### Reportable Quantity (49 CFR 172.101, Appendix):

ZUS\_CERCLA Reportable quantity Hydrochloric acid  
Hydrogen chloride  
Value: 5,000lbs  
SULFURIC ACID  
Value: 1,000lbs

ZUS\_SAR302 Reportable quantity Hydrogen Chloride (gas only) ( Gas)  
 Value: 5,000lbs  
 Sulfuric Acid  
 Value: 1,000lbs

**Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components**

ZUS\_SAR313 De minimis concentration Hydrochloric acid  
 Value: 1%  
 Sulfuric acid (acid aerosols including mists,  
 vapors, gas, fog, and other airborne forms of any  
 particle size)  
 Value: 0.1%

**Clean Air Act Toxic ARP Section 112r:**

CAA 112R None established

**Clean Air Act Socmi:**

HON SOC None established

**Clean Air Act VOC Section 111:**

CAA 111

US. EPA Clean Air Act (CAA) Section 111 SOCM I Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)

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POLYETHYLENE GLYCOL 200

**Clean Air Act Haz. Air Pollutants Section 112:**

ZUS\_CAAHAP None established

ZUS\_CAAHRP None established

CAA AP None established

**State Right-to-Know Regulations Status of Ingredients**

**Pennsylvania:**

CAS #	COMPONENT NAME
7647-01-0	HYDROCHLORIC ACID
7664-93-9	SULFURIC ACID

ZUSPA\_RTK

Pennsylvania: Hazardous substance list

1990-01-01  
HYDROCHLORIC ACID  
Environmental hazard, hazardous substance

Pennsylvania: Hazardous substance list  
1989-08-11  
HYDROCHLORIC ACID  
Environmental hazard

Pennsylvania: Hazardous substance list  
1990-01-01  
SULFURIC ACID  
Environmental hazard, hazardous substance

Pennsylvania: Hazardous substance list  
1989-08-11  
SULFURIC ACID  
Environmental hazard

**New Jersey:**

CAS #	COMPONENT NAME
7647-01-0	HYDROCHLORIC ACID
7664-93-9	SULFURIC ACID

ZUSNJ\_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
2007-03-01  
HYDROGEN CHLORIDE MURIATIC ACID HYDROCHLORIC ACID  
Special Health Hazard - Corrosive

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
2007-03-01  
SULFURIC ACID OIL of VITRIOL DIHYDROGEN SULFATE  
Special Health Hazard - Carcinogen, Special Health Hazard - Corrosive, Special Health Hazard - Reactive - Second Degree

**Massachusetts:**

CAS #	COMPONENT NAME
7647-01-0	HYDROCHLORIC ACID
7664-93-9	SULFURIC ACID

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications  
1993-04-24  
HYDROGEN CHLORIDE HYDROCHLORIC ACID

Extraordinarily hazardous

Massachusetts Right to Know List of Chemicals and Hazard Classifications  
1993-04-24  
SULFURIC ACID  
Extraordinarily hazardous

**California Proposition 65:**

CAS #	COMPONENT NAME
7664-93-9	SULFURIC ACID

ZUSCA\_P65

California Proposition 65. Safe drinking water and toxic enforcement act.  
Strong inorganic acid mists containing sulfuric acid  
Carcinogen

**WHMIS Hazard Classification:**

Ingredient Disclosure List (WHMIS)  
2007-08-24  
Threshold limits: 1 Weight percent  
80  
Citric acid

Ingredient Disclosure List (WHMIS)  
2007-08-24  
Threshold limits: 1 Weight percent  
502  
Hydrogen chloride

Ingredient Disclosure List (WHMIS)  
2007-08-24  
Threshold limits: 1 Weight percent  
138  
Sulfuric acid

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## 16. OTHER INFORMATION

MSDS REVISION STATUS :  
Major References : Available upon request.



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