

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: Ultima Power Wash Cell Cleaner

1. PRODUCT AND COMPANY IDENTIFICATION

Advantis Technologies 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America	REVISION DATE:	03/31/2011
	SUPERCEDES:	
	MSDS Number:	000000013711
	SYNONYMS:	None
	CHEMICAL FAMILY:	Not Applicable/Mixture
	DESCRIPTION / USE	Filter cleaner
FORMULA:	None established	

2. HAZARDS IDENTIFICATION

OSHA Hazard
Classification:

Corrosive to eyes and skin, Mucous membrane irritant

Routes of Entry:	Inhalation, skin, eyes, ingestion
Chemical Interactions:	No known or reported interactions.
Medical Conditions Aggravated:	None known or reported

Human Threshold Response Data

Odor Threshold Not established for product.

HYDROCHLORIC ACID 0.77 ppm

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	1	
NFPA	3	0	1	

Immediate (Acute) Health Effects

Inhalation Toxicity:	Not expected to be an inhalation hazard at ambient conditions. Inhalation of mist or vapor may cause irritation to the mucous membranes of the respiratory tract. Not expected to be toxic by inhalation.
Skin Toxicity:	Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling, and scab formation. Prolonged skin exposure may cause permanent damage.
Eye Toxicity:	Severe irritation and/or burns can occur following exposure. Direct contact may cause impairment of vision and corneal damage. Rinsing of the eye should take place immediately.
Ingestion Toxicity:	Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration or perforation. Aspiration may lead to lung damage. Slightly toxic if swallowed.
Acute Target Organ Toxicity:	This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

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.
Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Inhalation:	Prolonged exposure to high concentrations may cause dental discoloration and erosion.
Skin Contact:	Prolonged or repeated exposure may cause extensive permanent skin damage.
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 effects from repeated exposure except those secondary to burns.

Supplemental Health Hazard Information : No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
HYDROCHLORIC ACID	7647-01-0	19.2 -
HYDROCHLORIC ACID	7647-01-0	>=
POLYETHER DIOL	9003-11-6	>=
2,5-Furandione polymer with ethenylbenzene, sulfonated, sodium salt	68037-40-1	>=

4. FIRST AID MEASURES

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

Flammability Summary (OSHA):	Product is not known to be flammable, combustible, pyrophoric or explosive.
<u>Flammable Properties</u>	
Flash Point:	Not applicable
Autoignition Temperature:	No data
Fire / Explosion Hazards:	This material is not expected to burn unless all the water is boiled away. The remaining compounds may be ignitable. Reacts with most metals to form flammable hydrogen gas.
Extinguishing Media:	Not Applicable. - Choose extinguishing media suitable for surrounding materials.
Fire Fighting Instructions:	Response to this material requires the use of a full encapsulated suit and self-contained breathing apparatus (SCBA). Use water to cool containers.
Hazardous Combustion Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Upper Flammable / Explosive Limit, % in air:	No data
Lower Flammable / Explosive Limit, % in air:	No data

6. ACCIDENTAL RELEASE MEASURES

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.
<u>Spill Mitigation Procedures</u>	
Air Release:	Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by use of water fog but will slowly release hydrochloric acid. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.
Water Release:	This material is soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.
Land Release:	Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.

Additional Spill Information : Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor.

Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Keep containers tightly closed when not in use.

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.

Respirator Type : A NIOSH approved full-face or half-face respirator in combination with chemical goggles. A NIOSH approved air purifying respirator equipped with combination acid-gas/organic vapor cartridge and P95 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 : Wear impervious gloves, boots and apron to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Use chemical goggles and a faceshield.

Protective Clothing Type: Impervious, Butyl rubber, Neoprene

General Protective Measures: An eye wash and safety shower should be provided in the immediate work area.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
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Ultima Power Wash Cell Cleaner
REVISION DATE : 03/31/2011

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
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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	clear
Color:	Colorless
Odor:	Pungent
Molecular Weight:	Not applicable/Mixture
Specific Gravity :	1.095
pH :	1.6
Boiling Point:	No data
Freezing Point:	No data
Melting Point:	No data
Density:	No data
Vapor Pressure:	No data
Vapor Density:	No data
Viscosity:	No data
Fat Solubility:	No data
Solubility in Water:	Soluble
Partition coefficient n- octanol/water:	No data
Evaporation Rate:	No data
Oxidizing:	No data
Volatiles, % by vol.:	No data
VOC Content	No data
HAP Content	No data

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	High temperatures

Chemical Incompatibility: Strong oxidizing agents, Bases, Metals, Formaldehyde
 Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Chlorine, Hydrogen chloride
 Decomposition Temperature: No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

HYDROCHLORIC ACID LD50 900 mg/kg Rabbit

Component Animal Toxicology

Dermal LD50 value:

HYDROCHLORIC ACID No data

Component Animal Toxicology

Inhalation LC50 value:

HYDROCHLORIC ACID Inhalation LC50 1 h 3,124 ppm Rat

Component Animal Toxicology

Oral LD50 value:

HYDROCHLORIC ACID LD50 900 mg/kg Rabbit
 POLYETHER DIOL LD50 > 5,000 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

HYDROCHLORIC ACID No data
 POLYETHER DIOL LD50 > 2,000 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

HYDROCHLORIC ACID Inhalation LC50 1 h 3,124 ppm Rat
 POLYETHER DIOL Inhalation LC50 1 h > 200 MG/L Rat

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 4,700 mg/kg rat

Dermal LD50 value: no data available

Inhalation LC50 value: LC50 1 h (aerosol) Believed to be > 24 MG/L rat

Skin Irritation: This material is expected to be corrosive.

Eye Irritation: This material is expected to be corrosive.

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

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause

Subchronic / Chronic Toxicity: irritation to mucous membranes and respiratory tract.
There are no known or reported effects from repeated exposure except those secondary to burns.

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

POLYETHER DIOL Not known or reported to cause reproductive or developmental toxicity.

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.
HYDROCHLORIC ACID This chemical has been shown to be non-mutagenic based on a battery of assays.
POLYETHER DIOL Not known or reported to be mutagenic.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.
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.
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.
POLYETHER DIOL This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

12. ECOLOGICAL INFORMATION

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: POLYETHER DIOL

Fish - 96 h LC50 Believed to be > 100 mg/l based on available data and comparison to similar compounds.

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

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.

Disposal Methods : As a hazardous solid 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): UN1789 RQ, HYDROCHLORIC ACID SOLUTION 8 II
Water (IMDG): UN1789 HYDROCHLORIC ACID SOLUTION, 8 II MARINE POLLUTANT

Flash Point: Not applicable

Air (IATA): UN1789 HYDROCHLORIC ACID SOLUTION, 8 II
 Emergency Response Guide Number: ERG # 157

Transportation Notes: Material is not regulated as a marine pollutant for ground transportation within the US if shipped in non-bulk packages. Under specific circumstances, this product can ship under two transport exceptions, Limited Quantity or Consumer Commodity. See Bill of Lading for proper shipping description.

15. REGULATORY INFORMATION

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

ZUS_SAR302 Reportable quantity None established

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

ZUS_SAR313 De minimis concentration Hydrochloric acid
 Value: 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 None established

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP

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
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

New Jersey:

CAS #	COMPONENT NAME
7647-01-0	HYDROCHLORIC 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

Massachusetts:

CAS #	COMPONENT NAME
7647-01-0	HYDROCHLORIC ACID

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

HYDROGEN CHLORIDE HYDROCHLORIC ACID

Extraordinarily hazardous

California Proposition 65:

CAS #	COMPONENT NAME
ZUSCA_P65	None established

WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight percent

502

Hydrogen chloride

16. OTHER INFORMATION

MSDS REVISION STATUS :

Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .