

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 SDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **AQUA SILK CHLORINE-FREE SHOCK OXIDIZER**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier
Aqua Silk
1400 Bluegrass Lakes Parkway ,
Alpharetta, GA, 30004
USA

Telephone: +17705215999
Telefax: +17705215959
Web: www.poolspacare.com

REVISION DATE:	05/26/2015
SUPERCEDES:	12/15/2008
MSDS Number:	000000024565
SYNONYMS:	
CHEMICAL FAMILY:	None
DESCRIPTION / USE	None established
FORMULA:	None established

Manufacturer
Advantis Technologies
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004
United States of America

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing liquids	:	Category 1
Skin irritation	:	Category 2
Serious eye damage	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)

GHS Label element

Hazard pictograms



Signal word

: Danger

Hazard statements

: H271 May cause fire or explosion; strong oxidiser.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.

Precautionary statements

: **Prevention:**
 P210 Keep away from heat.
 P220 Keep/Store away from clothing/ combustible materials.
 P221 Take any precaution to avoid mixing with combustibles.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ eye protection/ face protection.
 P283 Wear fire/ flame resistant/ retardant clothing.
Response:
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
 P305 + P351 + P338 + P310 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.
 P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
 P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Storage:
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
HYDROGEN PEROXIDE (H ₂ O ₂)	7722-84-1	27.5

SECTION 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: Flush skin with water for 15 minutes. Take off all contaminated clothing. 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.

SECTION 5. FIREFIGHTING MEASURES

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: 0 - Will not burn Oxygen is a decomposition product of hydrogen peroxide. The generation of oxygen will increase the burning rate or ignitable materials.

Extinguishing Media: Water spray

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Keep people away from and upwind of spill/leak.
 Water Release: soluble if the product contaminates rivers and lakes or drains inform respective authorities.
 Land Release: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. 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.

SECTION 7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing vapours, mist or gas.
 Storage: Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Do not freeze. Keep product tightly sealed in original containers. Store product in a cool, dry, well-ventilated area. Store away from combustible or flammable products. Keep product packaging clean and free of all contamination, including, e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.
 Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."
 Empty Container Warning: Empty containers retain hazardous residue, dispose of accordingly.

SECTION 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 : NIOSH approved full-face positive pressure supplied-air respirator
 Skin Protection : Avoid contact with skin. Impervious gloves 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: Butyl rubber, Natural rubber, Nitrile, Viton™
 General Protective Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Components with workplace control parameters

Components (CAS-No.)	Value	Control	Basis (Update)
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AQUA SILK CHLORINE-FREE SHOCK OXIDIZER

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		parameters	
HYDROGEN PEROXIDE (H ₂ O ₂) (7722-84-1)	TWA	1 ppm	ACGIH (02 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	No data.
Color:	No data.
Odor:	No data.
Molecular Weight:	34.00 g/mol
pH :	2.7
	()
Boiling Point:	219 °F (104 °C)
Melting point/freezing point	No data
Bulk Density:	()
	no data available
Vapor Pressure:	186.7 hPa
Vapor Density:	no data available
Viscosity:	no data available
Solubility in Water:	soluble
Partition coefficient n-octanol/water:	No data
Evaporation Rate:	no data available
Oxidizing:	None established
Volatiles, % by vol.:	
VOC Content	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.
HAP Content	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions.
Conditions to Avoid:	Heat, Avoid concentrating the hydrogen peroxide. Concentrated hydrogen peroxide solutions are reactive, often violently, with a wide range of inorganic and organic chemicals.
Chemical Incompatibility:	Bases, Copper, Copper alloys, ferrous metals, brass, strong reducing agents, Contact with combustible materials may cause a fire.
Hazardous Decomposition Products:	Oxygen is a decomposition product of hydrogen peroxide. The generation of oxygen will increase the burning rate or ignitable materials.
Decomposition Temperature:	No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

HYDROGEN PEROXIDE (H₂O₂) LD50 (35% Hydrogen Peroxide) = 1,232 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

HYDROGEN PEROXIDE (H₂O₂) LD50 (35% Hydrogen Peroxide) > 2,000 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

HYDROGEN PEROXIDE (H₂O₂) Inhalation LC50 8 h (90% Hydrogen Peroxide) > 2000 ppm Rat
 Inhalation LC50 4 h (50% Hydrogen Peroxide) > 0.17 mg/l Rat

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 3,000 - 4,000 mg/kg Rat

Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg Rabbit

Inhalation LC50 value: no data available

Skin Irritation: Moderate skin irritant

Eye Irritation: Corrosive to eyes

Skin Sensitization: Not believed to be sensitising to skin.

Subchronic / Chronic Toxicity: There are no known or reported effects from chronic exposure.

Reproductive and Developmental Toxicity:

HYDROGEN PEROXIDE (H₂O₂) Not known or reported to cause reproductive or developmental toxicity.

Mutagenicity:

HYDROGEN PEROXIDE (H₂O₂) 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.

Carcinogenicity:

HYDROGEN PEROXIDE (H₂O₂) 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. The FDA determined

that this product is not carcinogenic in laboratory animals.

SECTION 12. ECOLOGICAL INFORMATION

Overview: Moderately toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: HYDROGEN PEROXIDE (H₂O₂)

Pimephales promelas (fathead minnow)	-	96 h LC50 = 16.4 mg/l
Channel Catfish (Ictalurus punctatus rafinesque),	-	96 h LC50 = 37.4 mg/l
Rainbow trout (Salmo gairdneri),	-	48 h Lethal > 40 mg/l
Daphnia magna,	-	24 h EC50= 7.7 mg/l
Daphnia pulex	-	48 h LC50= 2.4 mg/l

SECTION 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: D001. As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : LONZA-S10000000001587

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 2014
 Description of the goods : Hydrogen peroxide, aqueous solutions
 Class : 5.1
 Packing group : II
 Labels : 5.1 (8)

Emergency Response : 140
 Guidebook Number

TDG

UN number : 2014
 Description of the goods : HYDROGEN PEROXIDE, AQUEOUS SOLUTION
 Class : 5.1
 Packing group : II
 Labels : 5.1 (8)

IATA

UN number : 2014
 Description of the goods : Hydrogen peroxide, aqueous solution
 Class : 5.1
 Packing group : II
 Labels : 5.1 (8)
 Packing instruction (cargo aircraft) : 554
 Packing instruction (passenger aircraft) : 550
 Packing instruction (passenger aircraft) : Y540

IMDG-CODE

UN number : 2014
 Description of the goods : HYDROGEN PEROXIDE, AQUEOUS SOLUTION
 Class : 5.1
 Packing group : II
 Labels : 5.1 (8)
 EmS Number 1 : F-H
 EmS Number 2 : S-Q

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act**SARA 304 Extremely Hazardous Substances Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrogen peroxide	7722-84-1	1000	3636

SARA 302

The following components are subject to reporting levels established by SARA Title III, Section 302:

Hydrogen peroxide 7722-84-1

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Hydrogen peroxide 7722-84-1

Pennsylvania Right To Know

Hydrogen peroxide 7722-84-1

New Jersey Right To Know

Hydrogen peroxide 7722-84-1

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

: Aqua Silk Chlorine-Free Shock Oxidizer

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

SECTIONS REVISED: First formulated version in SAP.
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. .