



MATERIAL SAFETY DATA SHEET

Aqua Silk Chlorine-Free Shock Oxidizer

1. Product And Company Identification	
Supplier Advantis Technologies 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com	Manufacturer Advantis Technologies 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com
Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300	Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300
Issue Date: 12/15/2008 Product Name: Aqua Silk Chlorine-Free Shock Oxidizer CAS Number: Not Established Chemical Family: Hydrogen Peroxide MSDS Number: 373 Synonyms Dihydrogen dioxide (solution)	

2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
HYDROGENPEROXIDE	7722-84-1		27.5
Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).			

Hazards Identification (Pictograms)
 

3. Hazards Identification
Primary Routes(s) Of Entry Inhalation, skin, eyes, ingestion
Eye Hazards Corrosive. Burns can occur following exposure. Direct contact may cause impairment of vision, corneal damage and/or blindness. Rinsing of the eye should take place immediately.
Skin Hazards Not expected to be absorbed through the skin. Moderate skin irritant.
Ingestion Hazards Harmful if swallowed. 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. Ingestion may cause severe damage to the gastrointestinal tract with the potential to cause perforation. may cause rapid release of oxygen which may expand the esophagus or stomach resulting in severe damage.

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3. Hazards Identification - Continued

Inhalation Hazards

Inhalation of mist or vapor may cause irritation and/or burns to the mucous membranes of the respiratory tract.

Conditions Aggravated By Exposure

Pre-existing eye disease, respiratory diseases include asthma and bronchitis, dermatitis may be aggravated following exposure.

First Aid (Pictograms)



4. First Aid Measures

Eye

Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.

Skin

Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.

Ingestion

Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious victim.

Inhalation

If inhaled, remove 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.

5. Fire Fighting Measures

Flash Point: NA °F

Autoignition Point: NA °F

Flammability Class: Not known to be flammable

Fire And Explosion Hazards

Material will not ignite or burn. Oxygen is a decomposition product of hydrogen peroxide. The generation of oxygen will increase the burning rate of ignitable materials.

Extinguishing Media

Water spray

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear. Water can be used to cool and protect exposed material.

6. Accidental Release Measures

Air Release: Vapors may be suppressed by the use of water fog. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.

Water Release: This material is heavier than water. 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.

Land Release: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Dilute spilled material with large amounts of water. Do not place spill materials back in their original containers. Place in containers compatible for this material in a liquid form. After removal, flush contaminated area thoroughly with water.

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6. Accidental Release Measures - Continued

Hazardous concentrations in air may be found in local spill area and immediately downwind. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. Use appropriate personal protective equipment (PPE).

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions

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

Storage Precautions

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.

Violent, catalytic decomposition will occur in contact with certain metals, such as iron, copper, chromium, brass, bronze, lead, silver, manganese, or their salts. Decomposed by alkalies and even ordinary dust or rust, bases, reducing agents, alcohols and permanganates.

Empty containers retain product residue (liquid and/or vapor) and can be dangerous.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate general and local exhaust 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.

Eye/Face Protection

Use chemical goggles and a faceshield. Emergency eyewash should be provided in the immediate work area.

Skin Protection

Wear impervious gloves to avoid skin contact.

Respiratory Protection

Wear a NIOSH approved respirator if levels above the exposure limits are possible. NIOSH approved full-face positive pressure supplied-air respirator.

Other/General Protection

Protective Clothing Type: Butyl rubber, Natural rubber, Nitrile, Viton TM

Ingredient(s) - Exposure Limits

HYDROGEN PEROXIDE

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8. Exposure Controls/Personal Protection - Continued

Ingredient(s) - Exposure Limits - Continued

ACGIH: 1 ppm TWA

OSHA Z1: 1 ppm PEL, 1.4 mg/m³ PEL

NIOSH-IDLH: 75 ppm

9. Physical And Chemical Properties

Appearance

Colorless Liquid

Odor

None

Chemical Type: Mixture

Physical State: Liquid

Boiling Point: 219 °F 104 °C

Specific Gravity: 1.100

Molecular Weight: 34.00

Percent Volitales: 100

Vapor Pressure: 186.700 hPa

pH Factor: 2.7

Solubility: Soluble

10. Stability And Reactivity

Conditions To Avoid (Stability)

Contamination, avoid concentrating hydrogen peroxide, concentrated hydrogen peroxide solutions are reactive, often violently, with a wide range of inorganic and organic chemicals. Sparks, open flame, other ignition sources, and elevated temperatures.

Incompatible Materials

Strong reducing agents. Contact with combustible materials may cause a fire. Copper and copper alloys, ferrous metals, brass, bases.

Hazardous Decomposition Products

Oxygen is a decomposition product of hydrogen peroxide. The generation of oxygen will increase the burning rate of ignitable materials.

Stability and Reactivity Summary:

May become unstable at elevated temperatures and/or pressure. Not sensitive to mechanical shock. Not sensitive to static discharge.

11. Toxicological Information

Acute Studies

Irritating to skin and corrosive to eyes, respiratory tract and gastrointestinal tract.

Eye Effects

Corrosive to eyes.

Skin Effects

Moderate skin irritant. Not a skin sensitizer.

Dermal LD50 (35% Hydrogen Peroxide) = 2,000 mg/kg Rabbit

Dermal LD50 for this product believed to be <2,000 mg/kg Rabbit

Acute Oral Effects

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

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11. Toxicological Information - Continued

Acute Oral Effects - Continued

Oral LD50 Value for this product believed to be, <1,232 Rat

Acute Inhalation Effects

Inhalation LC50 8 hour (90% Hydrogen Peroxide) >2,000 ppm Rat

Inhalation LC50 4 hour (50% Hydrogen Peroxide) >0.17 mg/L Rat

Chronic/Carcinogenicity

There are no known or reported effects from chronic exposure. 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.

Reproductive Effects

This chemical is not known or reported to affect reproductive function or fetal development.

Mutagenicity (Genetic Effects)

This product has been tested for mutagenicity. Tests revealed both positive and negative results. Based on the weight of the evidence, we judge this product NOT to be a mutagenic hazard.

12. Ecological Information

Ecotoxicological Information

Moderately toxic to fish and other aquatic organisms.

Acute Toxicity - Fish And Invertebrates

Ecological Toxicity Values for: HYDROGEN PEROXIDE (H2O2)

Fathead minnow (*Pimephales promelas*) = 96 Hour LC50 = 16.4 mg/l

Channel catfish (*Ictalurus punctatus rafinesque*) = 96 Hour LC50 = 37.4 mg/l

Rainbow trout (*Salmo gairdneri*) = 48 Hour lethal >40 mg/l

Daphnia magna = 24 hour EC50 = 7.7 mg/l

Daphnia pulex = 48 Hour LC50 = 2.4 mg/l

13. Disposal Considerations

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

Dispose of material as hazardous waste. Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name

Hydrogen Peroxide, Aqueous Solution

Hazard Class

5.1, PGII

Secondary Hazard Class

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DOT Identification Number

UN2014

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DOT (Pictograms)



15. Regulatory Information

U.S. Regulatory Information

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

SARA Hazard Classes

Acute Health Hazard
Fire Hazard

Ingredient(s) - State Regulations

HYDROGEN PEROXIDE
New Jersey - Environmental Hazard
Pennsylvania - Environmental Hazard
Massachusetts - Hazardous Substance

Canadian Regulatory Information

WHMIS
01 1988
Threshold Limits: 1%
English List no. 849
HYDROGEN PEROXIDE

NFPA



HMIS

HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	D

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

Advantis Technologies