MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

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Material name	Hydrogen Peroxide Cassette
Issue date	9/14/12
Change Order #	1005190
CAS #	Mixture
Revision #	D
MSDS Number	52013
Manufacturer/Supplier	Advanced Sterilization Products 33 Technology Drive, Irvine CA 92618
Telephone number	1-800-755-5900
Emergency	24-Hour phone (Access code): 1-760-476-3962 (333623)
2. Hazards Identification	
Physical state	Liquid.
Appearance	Sealed cassette containing a clear liquid.
Emergency overview	DANGER
	Harmful if inhaled or swallowed. Causes skin, eye and digestive tract burns. Strong oxidizer - contact with other material may cause fire.
	The sealed Hydrogen Peroxide Cassette contains less than 5.62 mL per cell of hydrogen peroxide. The hazards are minimal due to the sealed cassette and quantity of hydrogen peroxide.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	Corrosive. Prolonged contact causes serious eye and tissue damage.
Skin	Corrosive. Prolonged contact causes serious tissue damage.
Inhalation	Harmful if inhaled. Vapors and mist will irritate throat and respiratory system and cause coughing.
Ingestion	Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
Target organs	Eyes. Skin. Gastro-intestinal tract Respiratory system.
Chronic effects	Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Signs and symptoms	Causes skin and eye burns. Symptoms include itching, burning, redness, and tearing of eyes. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.
Potential environmental effects	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Hydrogen peroxide	7722-84-1	>50
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. G	as concentrations are in

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations a percent by volume.

4. First Aid Measures

First aid procedures Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. Continue rinsing. Hold eyelids apart.

Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention promptly if symptoms occur after washing. Wash contaminated clothing before reuse.
Inhalation	Move injured person into fresh air and keep person calm under observation. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Only induce vomiting at the instruction of medical personnel. Do not give anything by mouth to an unconscious person. Get medical attention immediately.
Notes to physician	Treat symptomatically. Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire Fighting Measures	

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Flammable properties	The product is not flammable. May ignite combustibles (wood, paper, oil, clothing, etc.).		
Extinguishing media			
Suitable extinguishing media	The product itself does not burn. Increases fire risk. Extinguish with foam, carbon dioxide, dry powder or water fog.		
Unsuitable extinguishing media	None known.		
Protection of firefighters			
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in		

the workplace. Fire fighting Cool containers with flooding quantities of water until well after fire is out. Use water spray to cool equipment/instructions unopened containers. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal precautions	Local authorities should be advised if significant spillages cannot be contained. Stay upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Keep out of low areas. Use Personal Protective Equipment recommended in Section 8 of the MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
Methods for cleaning up	Clean up in accordance with all applicable regulations. Should not be released into the environment. IN CASE OF SPILL: Dilute with a large volume of water and hold in a pond or diked area until hydrogen peroxide decomposes. Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water. Never return spills to original containers for re-use. This material and its container must be
	disposed of as hazardous waste.
Other information	Clean up in accordance with all applicable regulations.
7. Handling and Storage	
Handling	No specific recommendations due to the small quantities handled. Do not remove plastic wrap if leak indicator has changed from yellow to red. Wear chemical resistant gloves and eye protection when handling a used cassette.
Storage	Store per label instructions to ensure product integrity. Avoid excessive heat and contamination. Contamination may cause decomposition and generation of oxygen gas which could result in high pressures and possible rupture.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

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Components	Туре	Value	
Hydrogen peroxide (7722-84-1)	TWA	1 ppm	

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Components	o for Air Contaminants (29 CFR 1910. Type	Value
Hydrogen peroxide	PEL	1.4 mg/m3
(7722-84-1)		1 ppm
Canada Alberta OELs (Oc	cupational Health & Safety Code, Scl	
Components	Type	Value
Hydrogen peroxide	TWA	1.4 mg/m3
(7722-84-1)		1.000
Canada British Columbia (OELS (Occupational Exposure Limit	1 ppm s for Chemical Substances, Occupational Health and
Safety Regulation 296/97, a		s for chemical substances, occupational health and
Components	Туре	Value
Hydrogen peroxide	TWA	1 ppm
(7722-84-1)		
Canada. Ontario OELS. (MI Components	nistry of Labor - Control of Exposure Type	e to Biological of Chemical Agents) Value
Hydrogen peroxide	TWA	1.4 mg/m3
(7722-84-1)		
		1 ppm
	• • •	ting the Quality of the Work Environment)
Components	Туре	Value
Hydrogen peroxide (7722-84-1)	TWA	1.4 mg/m3
· · · /		1 ppm
Mexico. Occupational Expo	osure Limit Values	
Components	Туре	Value
Hydrogen peroxide	STEL	3 mg/m3
(7722-84-1)		2 ppm
	TWA	1.5 mg/m3
		1 ppm
ineering controls	Provide adequate ventilation and min	nimize the risk of inhalation of vapors and mists.
sonal protective equipment		
Eye / face protection	Not necessary under normal condition	
Skin protection	Not necessary under normal condition	
	No protection is ordinarily required with adequate ventilation.	
Respiratory protection		-
General hygiene	Handle in accordance with good ind	-
		-
General hygiene	Handle in accordance with good ind	-
General hygiene considerations	Handle in accordance with good ind	ustrial hygiene and safety practice.
General hygiene considerations Physical & Chemical Pr	Handle in accordance with good ind	ustrial hygiene and safety practice.
General hygiene considerations Physical & Chemical Properties of the second sec	Handle in accordance with good ind roperties Sealed cassette containing a clear li	ustrial hygiene and safety practice.
General hygiene considerations Physical & Chemical Properties of the second sec	Handle in accordance with good ind roperties Sealed cassette containing a clear li Colorless.	ustrial hygiene and safety practice.
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General hygiene considerations Physical & Chemical Pro- pearance or or or threshold vsical state m ting point ezing point	Handle in accordance with good ind roperties Sealed cassette containing a clear li Colorless. Odorless. Not available. Liquid. Liquid. < 3 Not available. Not available. Not available.	ustrial hygiene and safety practice.
General hygiene considerations Physical & Chemical Property pearance or or or threshold rsical state m ting point ezing point ling point	Handle in accordance with good ind roperties Sealed cassette containing a clear line Colorless. Odorless. Not available. Liquid. Liquid. < 3 Not available. Not available. Not available. Not available. 244.4 °F (118 °C)	ustrial hygiene and safety practice.
General hygiene considerations Physical & Chemical Pro- pearance or or threshold vsical state m ting point ezing point ling point sh point	Handle in accordance with good ind roperties Sealed cassette containing a clear line Colorless. Odorless. Not available. Liquid. Liquid. 2 3 Not available. Not available. Not available. 244.4 °F (118 °C) > 200.1 °F (> 93.4 °C)	ustrial hygiene and safety practice.
General hygiene considerations Physical & Chemical Property pearance or or or threshold rsical state m ting point ezing point ling point	Handle in accordance with good ind roperties Sealed cassette containing a clear line Colorless. Odorless. Not available. Liquid. Liquid. < 3 Not available. Not available. 244.4 °F (118 °C) > 200.1 °F (> 93.4 °C) Not available.	ustrial hygiene and safety practice.

Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	14.8 mmHg
Vapor density	Not available.
Specific gravity	1.24
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	1.207 cP

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Excessive heat and contamination could cause product to become unstable and decompose.
Incompatible materials	Reducing agents. Wood, paper and other combustibles. Iron. Heavy metals. Copper and copper alloys. Caustics.
Hazardous decomposition products	Oxygen.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological da	ata
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Product		Test Results	
Hydrogen Peroxide Cassette (Mix	kture)	Acute Dermal LD50 Rabbit: 6.5 g/kg 70 % hydrogen peroxide	
		Acute Oral LD50 Rat: 376 mg/kg	
Acute effects	Harmful if inhaled or swallow	wed.	
Local effects	Causes skin, eye and diges system and cause coughing	tive tract burns. Vapors and mist may irritate throat and respiratory g.	
Sensitization	Not classified.		
Chronic effects	Prolonged or repeated conta	Prolonged or repeated contact may dry skin and cause irritation.	
Carcinogenicity	This product is not consider	ed to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
ACGIH Carcinogens			
Hydrogen peroxide (CAS	5 7722-84-1)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenici	ty	
Hydrogen peroxide (CAS	S 7722-84-1)	3 Not classifiable as to carcinogenicity to humans.	
Mutagenicity	None known.		
Reproductive effects	None known.		
Symptoms and target organs		. Symptoms include itching, burning, redness, and tearing of eyes. e irritation of the mouth, the esophagus and the gastrointestinal tract.	
12. Ecological Information	n		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
Persistence and degradability	The product is biodegradable.		
Bioaccumulation / Accumulation	Potential to bioaccumulate	is low.	
Partition coefficient (n-octanol/water)	Not available.		

Mobility in environmentalThe product is miscible with water. May spread in water systems.media

13. Disposal Considerations

Waste codes	Not regulated.
Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

DOT			
Basic shipping requireme	nts:		
UN number	UN2014		
Proper shipping name	Hydrogen peroxide, aqueous solutions		
Hazard class	5.1		
Subsidiary hazard class	8		
Packing group	ll		
Environmental hazards			
Marine pollutant Labels	No		
required Additional	5.1, 8		
information:			
Special provisions	12, A60, B53, B80, B81, B85, IB2, IP5, T7, TP2, TP6, TP24, TP37		
Packaging exceptions	None		
Packaging non bulk	202		
Packaging bulk	243		
ΙΑΤΑ			
Basic shipping requireme	nts:		
UN number	2014		
Proper shipping name	Hydrogen peroxide, aqueous solution		
Hazard class	5.1		
Subsidiary hazard class	8		
Environmental hazards			
Marine pollutant	No		
Additional information:			
ERG code	5C		
IMDG			
Basic shipping requireme	nts:		
UN number	2014		
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION		
Hazard class	5.1		
Subsidiary hazard class	8		
Packing group	II		
Environmental hazards			
Marine pollutant	No		
EmS No.	F-H, S-Q		
TDG			
Basic shipping requireme	nts:		
Proper shipping name HYDROGEN PEROXIDE, AQUEOUS SOLUTION			
Hazard class UN	class UN 5.1		
number Packing	UN2014		
group Marine	II		
pollutant	No		
15. Regulatory Informati	on		
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US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Con		

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

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State regulations US - California Hazardous S Hydrogen peroxide (CAS	Substance: Listed substance	Yes Yes No Yes No Yes Yes Yes Yes
Country(s) or region Australia Canada Canada China Europe Europe Japan Korea New Zealand Philippines United States & Puerto Rico *A "Yes" indicates that all compor State regulations US - California Hazardous S Hydrogen peroxide (CAS	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances (PICCS) Toxic Substances Control Act (TSCA) Inventory nents of this product comply with the inventory requirements administered by the governing country(s) This product does not contain a chemical known to the State of California to cause cancer defects or other reproductive harm. Substances (Director's): Listed substances 5 7722-84-1) Listed.	Yes Yes No Yes No Yes Yes Yes Yes
Country(s) or region Australia Canada Canada China Europe Europe Japan Korea New Zealand Philippines United States & Puerto Rico *A "Yes" indicates that all compor State regulations	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances (PICCS) Toxic Substances Control Act (TSCA) Inventory nents of this product comply with the inventory requirements administered by the governing country(s) This product does not contain a chemical known to the State of California to cause cance defects or other reproductive harm. Substances (Director's): Listed substances	Yes Yes No Yes No Yes Yes Yes Yes
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Country(s) or region Australia Canada Canada China Europe Europe Japan Korea New Zealand Philippines United States & Puerto Rico	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances (PICCS) Toxic Substances Control Act (TSCA) Inventory	Yes Yes No Yes No Yes Yes Yes Yes
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Country(s) or region Australia Canada Canada China Europe Europe	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS)	Yes Yes No Yes Yes No
Country(s) or region Australia Canada Canada China Europe	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes Yes No Yes Yes
Country(s) or region Australia Canada Canada China	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical	Yes Yes No Yes
Country(s) or region Australia Canada Canada	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL)	Yes Yes No
Country(s) or region Australia Canada	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL)	Yes Yes
Country(s) or region Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Country(s) or region		
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	and the second	
WHMIS labeling	E - Corrosive	
WHMIS classification	B3 - Flammable/Combustible C - Oxidizing D1B - Immediate/Serious-TOXIC D2B - Other Toxic Effects-TOXIC	
WHMIS status	Controlled	
Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the contains all the information required by the CPR.	ne MSDS
Administration (DEA) (21 CFR 1308.11-15)		
370) Drug Enforcement	Not controlled	
CRF 355, Appendix A) Section 311/312 (40 CFR	No	
Section 302 extremely hazardous substance (40	No	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)	
CERCLA (Superfund) reportable None	e quantity (IDS) (40 CFR 302.4)	
CEDCLA (Comparisonal) was autoble		
Hydrogen peroxide (CAS		
Hydrogen peroxide (CAS	Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity	
US EPCRA (SARA Title III) S Hydrogen peroxide (CAS US EPCRA (SARA Title III) S Hydrogen peroxide (CAS	Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity	
Not regulated. US EPCRA (SARA Title III) S Hydrogen peroxide (CAS US EPCRA (SARA Title III) S Hydrogen peroxide (CAS	S 7722-84-1) 1000 LBS Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity	

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US - New Jersey Community RTK (EHS Survey): Reportable threshold				
Hydrogen peroxide (CAS 7722-84-1)		500 LBS		
US - New Jersey RTK - Substances: Listed substance				
Hydrogen peroxide (CAS 7722-84-1)		Listed.		
US - Pennsylvania RTK - Hazardous Substances: Listed substance				
Hydrogen peroxide (CAS 7722-84-1)		Listed.		
Mexico regulations	This safety data sheet was pre (NOM-018-STPS-2000).	pared in accordance with the Official Mexican Standard		
16. Other Information				
HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 1			
NFPA ratings	Health: 3 Flammability: 0 Instability: 1 Special hazards: OX			

Disclaimer

Additional information is given in the Material Safety Data Sheet. The information in the sheet was written based on the best knowledge and experience currently available.