

	MSDS No.:	010
Hydrogen Peroxide	Revision No.:	1
, ,	Date:	11/30/04

PRODUCT AND COMPANY INFORMATION – SECTION 1		
	Water-Jel Technologies	
	243 Veterans Boulevard	
Manufacturer/Distributor:	Carlstadt, NJ 07072	
	201-507-8300	
	800-275-3433	
Product Name:	Hydrogen Peroxide	
Synonyms:	Hydrogen Dioxide Solution, Dihydrogen Dioxide, Hydrogen Dioxide, Hydroperoxide, Peroxide,	
Intended Use:	First Aid treatment for minor cuts and scrapes.	

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT:
In the continental U.S.: 800-275-3433
For additional information: 201-507-8300

COMPOSITION INFORMATION – SECTION 2		
Chemical Name:	Hydrogen Peroxide	
Percent:	3	
CAS Number:	7722-84-1	
Exposure Limits	OSHA PEL: 1 ppm (1.4 mg/m3)	
Chemical Name:	Water	
Percent:	97	
CAS Number:	7732-18-5	
Exposure Limits	No information Available	

HAZARDS IDENTIFICATION – SECTION 3				
EMERGENCY OVERVIEW & HAZARDS PRESENT TO MAN AND THE ENVIRONMENT	Caution! May cause skin irritation. May cause respiratory and digestive tract irritation. May cause severe eye irritation and possible injury.			
PRIMARY ROUTES OF EXPOSURE	Ingestion, Eye Contact.			
POTENTIAL HEALTH EFFECT	POTENTIAL HEALTH EFFECTS:			
Eyes:	Causes irritation, redness, and pain.			
Skin:	May cause skin irritation. Contact on burn or open skin may cause stinging pain or irritation.			
Inhalation:	May cause respiratory irritation.			
Ingestion:	Large oral doses may cause irritation and blistering to the mouth, throat, and abdomen. May also cause abdominal pain, vomiting, and diarrhea.			



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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	Individuals with pre-existing respiratory conditions.		
CHRONIC HEALTH EFFECTS:			
Eyes:	May cause corneal injury.		
Skin:	May cause skin discoloration.		
Inhalation:	Repeated exposure may lead to chemical pneumonitis and pulmonary edema.		
Ingestion:	May lead to distention of the esophagus and stomach.		

FIRST AID MEASURES – SECTION 4		
SEEK MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE.		
FIRST AID MEASURES:		
Immediately flush eyes with plenty of water for at least fifteen (15) minutes, lifting lower and upper eyelicoccasionally. Get medical attention immediately. Not expected to require first aid measures. Was exposed area with soap and water. Get medical advict if irritation develops. Remove to fresh air. If not breathing, give artific respiration. If breathing is difficult, give oxygen. If NOT use mouth-to-mouth resuscitation. Ingestion: Give several glasses of water to drink to dilute. If large amounts are swallowed, seek medical advice.		

FIRE FIGHTING MEASURES – SECTION 5							
		NFPA Clas	ssification				
<u>Health</u>		<u>Fire</u>	Reacti	<u>vity</u>	<u>Othe</u>	<u>r</u>	
1	1 0		1		1- Cont	1- Contact	
FLAMMABILIT	FLAMMABILITY PROPERTIES						
Flash Point:	N/A		Method:	N/A			
Flammability Limits: (in air % by volume)			LEL:	N/A	UEL:	N/A	
Autoignition Temperature:							
N/A.							



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Hazardous Combustion Products:

Nitrogen oxides, hydrogen gas, oxygen, hydrazoic acid.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire. Use flooding quantities of water as spray.

Prohibited Extinguishing Media:

Carbon dioxide or other extinguishing agents that smother flames are not effective in extinguishing fires involving oxidizers.

Firefighting Instructions:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

Unusual Fire and Explosion Hazards:

No information available.

ACCIDENTAL RELEASE MEASURES - SECTION 6

Environmental Precautions:

Avoid runoff into storm sewers and ditches, which lead to waterways. Clean up spills immediately observing precautions in Section 8, EXPOSURE CONTROLS / PERSONAL PROTECTION. Provide ventilation.

Cleanup Methods:

Small spills: Dilute with water and mop up.

<u>Large spills:</u> Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

HANDLING & STORAGE – SECTION 7				
Handling: Wash thoroughly after handling. Use with adequate ventil Avoid contact with eyes, skin, and clothing. Keep con tightly closed. Avoid ingestion and inhalation.				
Storage:	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.			
Specific Uses:	First Aid treatment for minor cuts and scrapes.			



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EXPOSURE CONTROLS / PERSONAL PROTECTION – SECTION 8
EXPOSURE CONTROLS:

Exposure Limit Values:

	OSHA PEL:	ACGIH TLV:
Hydrogen Peroxide	1 ppm (1.4mg/m3)	1 ppm TWA (1.4mg/m3)

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:

Replace with PPE information.

Hand Protection:

Wear appropriate protective gloves.

Eye/Face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin Protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

General Hygiene Considerations:

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

Other Protective Equipment:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

PHYSICAL & CHEMICAL PROPERTIES – SECTION 9				
PRODUCT:	Hydrogen Peroxide			
General Information:				
Appearance	Clear Liquid			
Odor	Slight			
<u> </u>				
Important Health, Safety, and Environmental Information:				



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> 100 deg C
No information available
>1.000
Soluble.
No information available
No information available
No information available
>1.00
No information available
No information available

STABILITY & REACTIVITY - SECTION 10

Stability:

Decomposes slowly to release oxygen.

Conditions to Avoid:

Incompatible materials, light, ignition sources, metals, excess heat, reducing agents, alkaline materials, oxidizers, and temperatures above 300 C.

Materials to Avoid:

Hydrogen peroxide is incompatible with acetal + acetic acid, acetaldehyde + desicants, acetic acid, acetic acid + N-heterocycles, acetic acid + 3-thioetanol, acetic anhydride, acetone, alcohols, alcohols + sulfuric acid, aluminum isopropoxide + heavy metal salts, 2-amino-4-methyloxazole, aromatic hydrocarbons + trifluoroacetic acid, azalaic acid + sulfuric acid, benzenesulfonic anhydride, tert-butanol + sulfuric acid, carboxylic acids, diethyl ether, 3,5-dimethyl-3-hexanol sulfuric carbon. dimethylphenylphosphine, diphenyl diselenide, 2-ethoxyethanol + polyacrylamide + toluene, ethyl acetate, formic acid + metaboric acid, gadolinium hydroxide, gallium + hydrochloric acid, hydrogen + palladium catalyst, hydrogen selenide, iron (III) sulfate + 2-methylpyridine + sulfuric acid, iron (II) sulfate + nitric acid + sodium carboxymethylcellulose, ketene, ketones + nitric acid, lead + trioxane, lithium tetrahydroaluminate, mercury (II) oxide + nitric acid, metals, metal oxides or metal salts, methanol + tert-amine + platinum catalyst, methanol + phosphoric acid, 4-methyl-2,4,6triazatricyclo-undeca-8-ene-3.5dione + potassium hydroxide, nitric acid + soils, nitric acid + thiourea, nitrogenous bases, organic compounds, organic materials + sulfuric acid, compounds, 2-phenyl-1,1-dimethylethanol + sulfuric acid, phenylselenoketones, phosphorus, phosphorus (V) oxide, poly(acetoxyacrylic acid lactone) + poly(2-hydroxyacrylic acid), sulfuric acid, tetrahydrothiophene, tin(II) chloride, unsaturated compounds, and vinyl acetate.



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Hazardous Decomposition Products:

Nitrogen oxides, hydrogen gas, oxygen, hydrazoic acid.

Hazardous Polymerization:

No information available

TOXICOLOGICAL INFORMATION – SECTION 11				
Type of Test	Route of Exposure	<u>Effects</u>	Species Observed	Dose Data
LC ₅₀ (Hydrogen Peroxide)	Inhalation	Death	Rat	2000 mg/m3;
LD ₅₀ (Hydrogen Peroxide)	Oral	Death	Mouse	2000 mg/kg;
LD ₅₀ (Hydrogen Peroxide)	Oral	Death	Rabbit	820 mg/kg;
LD ₅₀ (Hydrogen Peroxide)	Oral	Death	Rat	1518 mg/kg;
LD ₅₀ (Water)	Oral	Death	Rat	>90 mL/kg.

ECOLOGICAL INFORMATION – SECTION 12

Ecotoxicity:

No information available.

Mobility:

No information available.

Persistence and Degradability:

No information available.

Bioaccumulative Potential:

No information available.

DISPOSAL CONSIDERATION - SECTION 13

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.



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TRANSPORT INFORMATION - SECTION 14				
DOT CLASSIFICATION:				
UN Number:				
Class:				
Proper Shipping Name:	Not Regulated for Domestic Transportation.			
Packing Group:	Not Regulated for Domestic Transportation.			
Marine Pollutant:				
Other Information:				
	IATA CLASSIFICATION:			
UN Number:				
Class:				
Proper Shipping Name:	Not Degulated for International Air Transportation			
Packing Group:	Not Regulated for International Air Transportation.			
Marine Pollutant:				
Other Information:				
	IMDG CLASSIFICATION:			
UN Number:				
Class:				
Proper Shipping Name:	Not Regulated for International Water Transportation.			
Packing Group:	Not Regulated for international water fransportation.			
Marine Pollutant:				
Other Information:				

REGULATORY INFORMATION – SECTION 15		
<u>US REGULATIONS</u>		
ACGIH	Listed - Hydrogen Peroxide - TWA: 1 ppm (1.4 mg/m3)	
CAA Section 112	Not Listed	
CERCLA	Not Listed	
IARC	Listed - Hydrogen Peroxide - Group 3 or 4	
NTP	Not Listed	
OSHA	Listed - Hydrogen Peroxide – PEL: 1 ppm (1.4 mg/m3)	
SARA Title III	Not Listed	



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TSCA	Not Listed	
STATE REGULATIONS		
MA Substance List	Listed - Hydrogen Peroxide- 2,4,5,E,F6	
NJ RTK Hazardous Substance List	Listed - Hydrogen Peroxide	
PA Hazardous Substance List	Listed - Hydrogen Peroxide	
Canadian WHMIS	Listed - Hydrogen Peroxide 3%	

OTHER INFORMATION - SECTION 16	
Revision Number	Revision Date
1	03/15/05

To the best of our knowledge, the information contained herein is accurate. However, neither Water-Jel Technologies, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.