



	MSDS No.:	010
Hudragen Perevide	Revision No.:	3
Hydrogen Peroxide	Issue Date:	01/15/2008
	Exp Date:	01/2011

PRODUCT AND COMPAN	Y INFORMATION - SECTION 1
	Water-Jel Technologies
	50 Broad Street
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	

<b>COMPOSITION INF</b>	FORMATION – SECTION 2
Chemical Name:	Hydrogen Peroxide
Percent:	3
CAS Number:	7722-84-1
Exposure Limits:	OSHA PEL: 1 ppm (1.4 mg/m <sup>3</sup> )
Chemical Name:	Water
Percent:	97
CAS Number:	7732-18-5
Exposure Limits:	No information Available

HAZARDS IDENTIFICATION	ON – 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 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.	

SEEK MEDICAL	ATTENTION FOR ALL CASES OF OVEREXPOSURE.
FIRST AID MEASURES:	
Eyes:	Immediately flush eyes with plenty of water for at least fifteen (15) minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
Skin:	Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. DO NOT use mouth-to-mouth resuscitation.
Ingestion:	Give several glasses of water to drink to dilute. If large amounts are swallowed, seek medical advice.
Instructions for Physician:	Treat symptomatically and supportively.

	NFPA	Classificati	on		
Health	Fire	9	Reactivity	<u>Other</u>	
1	0		1	1-Contact	
FLAMMABILITY	PROPERTIES				
Flash Point:	N/A	Method:	N/A		
Flammability Li	mits: (in air % by volume)	LEL:	N/A	UEL:	N/A
Autoignition Te	mnerature:				



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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.

<b>HANDLING &amp; STO</b>	RAGE – SECTION 7
Handling:	Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, and clothing. Keep container 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:		
Exposure Limits Values:		
	OSHA PEL: ACGIH TLV:	
Hydrogen Peroxide	1 ppm (1.4 mb/m <sup>3</sup> )	1 ppm TWA (1.4 mg/m³)
Engineering Controls:		
shower. Use adequate venti PERSONAL PROTECTIVE I	ation to keep airborne concen	d with an eyewash facility and a safetrations low.
Respiratory Protection:		
Replace with PPE information	n.	
Hand Protection:		
NAT CONTROL AND LABORATE AND LA	alovos	
Wear appropriate protective	910400.	
Eye/Face Protection:	90000	
Eye/Face Protection:  Wear appropriate protective	eyeglasses or chemical safety	goggles as described by OSHA's e opean Standard EN 166.
Eye/Face Protection:  Wear appropriate protective		goggles as described by OSHA's e opean Standard EN 166.
Eye/Face Protection:  Wear appropriate protective and face protection regulations Skin Protection:	eyeglasses or chemical safety	opean Standard EN 166.

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 PROP	PERTIES – SECTION 9	
PRODUCT:	Hydrogen Peroxide	
General Information:		
Appearance	Clear Liquid	
Odor	Slight	
Important Health, Safety, and Enviro	nmental Information:	
Boiling Point	> 100 deg C	
Melting Point	No information available.	



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Flash Point	No information available.	
Explosive Properties	No information available.	
Oxidizing Properties	No information available.	
Specific Gravity (H <sub>2</sub> O = 1)	> 1.000	
Water Solubility	Soluble.	
Partition Coefficient (n-octanol/water)	No information available.	
Viscosity	No information available.	
Vapor Pressure (mm Hg)	No information available.	
Vapor Density (Air = 1)	> 1.00	
Evaporation Rate	No information available.	
% Volatile (By Volume @ 68°F)	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 anhydre, acetone, alcohols, alcohols + sulfuric acid, aluminum isopropoxide + heavy metals salts, 2-amino-4 methyloxazole, aromatic hydrocarbons + trifluoroacetic acid, azalic acid + sulfuric acid, benzenesulfonic anhydre, trert-butanol + sulfuric acid, carboxylic acids, carbon, coal, diethyl ether, 3,5-dimethyl-3-hexanol + sulfuric acid, 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, 6-triazatricyclo-undeca-8-ene-3, 5 dione + potassium hydroxide, nitric acid + soils, nitric acid+ thiourea, nitrogenous bases, organic compounds, organic materials + sulfuric acid, oxygenated compounds, 2-phenyl-1, 1-dimethylethanol + sulfuric acid, alphaphenylselenoketones, phosphorus, phosphorus (V) oxide, poly(acetoxyacrylic acid lactone) + poly(2-hydroxiacrylic 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

Type of Test	Route of Exposure	<b>Effects</b>	Species Observed	Dose Data
LC <sub>50</sub> Hydrogen Peroxide)	Inhalation	Death	Rat	2000 mg/m <sup>3</sup>
LD <sub>50</sub> Hydrogen Peroxide)	Oral	Death	Mouse	2000 mg/kg
LD <sub>50</sub> Hydrogen Peroxide)	Oral	Death	Rabbit	820 mg/kg
LD <sub>50</sub> Hydrogen Peroxide)	Oral	Death	Rat	1518 mg/kg
LD <sub>50</sub> (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.

**Bio accumulative 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:	Not Degulated for International Air Transportation		
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 transportation.		
Marine Pollutant:			
Other Information:			

REGULATORY INFORMATI	ON – SECTION 15	
<u>US REGULATIONS</u>		
ACGIH  Listed – Hydrogen Peroxide – TV 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	
TSCA	Not Listed	



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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%	

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