



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Water, distilled, conductivity or of similar purity	7732-18-5	60 - 100	-
Propylene Glycol	57-55-6	1 - 5	-
Hydrogen peroxide	7722-84-1	1 - 5	1
1-Octadecanaminium, N,N-dimethyl-N-[3-(trimethoxysilyl)propyl]-, chloride	27668-52-6	0.1 - 1	-

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes
<b>Skin Contact</b>	Wash skin with soap and water
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water
<b>Notes to Physician</b>	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable
<b>Flash Point</b>	Not applicable
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Uniform Fire Code</b>	<ul style="list-style-type: none"> <li>OTHER HEALTH HAZARD: TARGET ORGAN TOXIN--LIQUID</li> </ul>
<b>Hazardous Combustion Products</b>	Carbon oxides
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	Not sensitive
<b>Sensitivity to static discharge</b>	Not sensitive

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

<b>NFPA</b>	<b>Health Hazard</b> 0	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> -
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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with eyes.
<b>Methods for Containment</b>	Prevent further leakage or spillage
<b>Methods for Clean-up</b>	Soak up with inert absorbent material. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.
<b>Storage</b>	Keep containers tightly closed in a dry, cool place

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup> TWA: 1 ppm	75 ppm

NIOSH IDLH: Immediately Dangerous to Life or Health

<b>Engineering Controls</b>	Showers Eyewash stations
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	If splashes are likely to occur, wear: Goggles.
<b>Skin and body protection</b>	Risk of contact: Wear protective gloves/clothing.
<b>Respiratory Protection</b>	None required under normal usage.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear	<b>Odor</b>	Rain
<b>Physical State</b>	Liquid	<b>pH</b>	3 – 5
<b>Flash Point</b>	Not applicable	<b>Autoignition Temperature</b>	Not applicable
<b>Boiling Point/Range</b>	100°C (water)	<b>Melting Point/Range</b>	No data available
<b>Flammability Limits in Air</b>	No data available		
<b>Water Solubility</b>	Soluble in water	<b>Solubility</b>	No data available
<b>VOC Content</b>	1.5%	<b>Partition Coefficient (n-octanol/water)</b>	

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid</b>	None known based on information supplied.
<b>Incompatible Products</b>	None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied

**Hazardous Polymerization**

Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propylene Glycol	20000 mg/kg ( Rat )	20800 mg/kg ( Rabbit )	
Hydrogen peroxide	801 mg/kg ( Rat )	2000 mg/kg ( Rabbit ) 4060 mg/kg ( Rat )	2 mg/L ( Rat ) 4 h

**Subchronic Toxicity (28 days)****Chronic Toxicity****Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide	A3			

**Mutagenicity****Reproductive Toxicity**

This product does not contain any known or suspected reproductive hazards.

**Target Organ Effects**

Eyes, Skin.

**Endocrine Disruptor Information**

None known

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Ecotoxicity effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Propylene Glycol	EC50 = 19000 mg/L 96 h		EC50 = 710 mg/L 30 min	EC50 > 10000 mg/L 48 h
Hydrogen peroxide	EC50 = 2.5 mg/L 72 h			EC50 = 7.7 mg/L 24 h

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).

**Contaminated Packaging**

Dispose of in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

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Chemical Name	California Hazardous Waste Status
Hydrogen peroxide	Not applicable as formulated

**14. TRANSPORT INFORMATION**

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG/IMO</u></b>	Not regulated
<b><u>RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL	Complies
NDSL	Complies
EINECS	Complies
ELINCS	Complies
ENCS	Complies
CHINA	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen peroxide	Not as formulated	Not as formulated	Not as formulated	Not as formulated

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Propylene Glycol	57-55-6	1 - 5		Group I		

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen peroxide		Not applicable as formulated

#### Pesticide Information

Chemical Name	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Water, distilled, conductivity or of similar purity		List 4A - Minimum Risk Inerts		
Propylene Glycol		List 4B - Inert Ingredients	X	
Hydrogen peroxide		List 3 - Unknown Toxicity	X	

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene Glycol			X		X
Hydrogen peroxide	X	X	X		X

**International Regulations****Mexico - Grade**

Minimum risk, Grade 0

Chemical Name	Carcinogen Status	Exposure Limits
Hydrogen peroxide	A3	TWA: 1.5 mg/m <sup>3</sup> TWA: 1 ppm STEL: 3 mg/m <sup>3</sup> STEL: 2 ppm

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Non-controlled

## 16. OTHER INFORMATION

<b>Issuing Date</b>	21-Jul-2006
<b>Revision Date</b>	24-Jul-2006
<b>Revision Note</b>	No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**