

Issuing Date 13-Nov-2009

Revision Date

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Contrast PM Plus 36% dental whitening gel

**UN-No** UN2984

**Recommended Use** Personal care

### Distributor

Spectrum Dental LLC  
8554 Hayden Place  
Culver City, CA 90232  
USA  
TEL: 1-800-817-3636

**Emergency Telephone Number** 1-800-817-3636

## 2. HAZARDS IDENTIFICATION

### WARNING!

### Emergency Overview

Harmful if swallowed  
Severe eye irritation  
May cause skin irritation and/or dermatitis  
Irritating to respiratory system  
May cause adverse kidney effects  
Oxidizing agent

**Appearance** Clear

**Physical State** Gel.

**Odor** Mint-like

### Potential Health Effects

#### Principle Routes of Exposure

Inhalation. Skin contact. Eye contact.

#### Acute Toxicity

##### Eyes

Severely irritating to eyes. Risk of serious damage to eyes.

##### Skin

Irritating to skin. May cause inflammation

##### Inhalation

Irritating to respiratory system. May be harmful if inhaled.

##### Ingestion

Harmful if swallowed.

#### Chronic Effects

Prolonged or repeated exposure increases the risk.

#### Aggravated Medical Conditions

Pre-existing eye disorders. Kidney disorders. Skin disorders. Respiratory disorders.

#### Environmental Hazard

See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Propylene glycol	57-55-6	40-50
Hydrogen peroxide	7722-84-1	10-20
Urea peroxide	124-43-6	10-20
Glycerin	56-81-5	1-10
Silicon dioxide	7631-86-9	1-10
Potassium nitrate	7757-79-1	1-10

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If large quantities of this material are swallowed, call a physician immediately.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Substance does not burn but will support combustion.
<b>Flash Point</b>	Not applicable.
<b>Suitable Extinguishing Media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Hazardous Combustion Products</b>	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ). On decomposition product releases oxygen which may intensify fire.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	None
<b>Specific Hazards Arising from the Chemical</b>	Oxidizing agents may form explosive peroxides.
<b>Protective Equipment and Precautions for Firefighters</b>	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> 2	<b>Flammability</b> 0	<b>Stability</b> 1	<b>Physical and Chemical Hazards</b> OX
<b>HMIS</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 0	<b>Physical Hazard</b> 1	<b>Personal Protection</b> B

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Avoid contact with the skin and the eyes.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Dam up. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.
<b>Other Information</b>	Keep combustibles (wood, paper, oil, etc) away from spilled material

## 7. HANDLING AND STORAGE

<b>Handling</b>	Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or spray mist.
<b>Storage</b>	Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerin 56-81-5	TWA: 10 mg/m <sup>3</sup> mist	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	
Silicon dioxide 7631-86-9	10 mg/m <sup>3</sup>	20 mppcf TWA; ((80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> )	IDLH: 3000 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup> (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m <sup>3</sup>	IDLH: 75 ppm TWA: 1.4 mg/m <sup>3</sup> TWA: 1 ppm

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**Engineering Measures**                      Showers. Eyewash stations. Ventilation systems.

### Personal Protective Equipment

#### **Eye/Face Protection**

#### **Skin and Body Protection**

#### **Respiratory Protection**

Safety glasses with side-shields.

Protective gloves. Lightweight protective clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

### **Hygiene Measures**

When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Clear.	<b>Odor</b>	Mint-like.
<b>Odor Threshold</b>	No information available.	<b>Physical State</b>	Gel
<b>pH</b>	3.0-5.5		
<b>Flash Point</b>	Not applicable.	<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available	<b>Boiling Point/Range</b>	No information available
<b>Melting Point/Range</b>	No information available		
<b>Flammability Limits in Air</b>	No information available	<b>Explosion Limits</b>	No information available
<b>Specific Gravity</b>	No data available	<b>Water Solubility</b>	Miscible with water
<b>Solubility</b>	Insoluble.	<b>Evaporation Rate</b>	No information available
<b>Vapor Pressure</b>	No data available	<b>Vapor Density</b>	No data available
<b>VOC Content (%)</b>	51.864	<b>Viscosity</b>	100,000-600,000 cps

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions. Decomposes on heating
<b>Incompatible Products</b>	Combustible materials. Oxidizing or reducing agents. Strong acids. Metals.
<b>Conditions to Avoid</b>	Heat.
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ). Aldehydes. Oxygen which supports combustion.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

<b>Inhalation</b>	Irritating to respiratory system.
<b>Eye Contact</b>	Severely irritating to eyes May cause irreversible damage to eyes.
<b>Skin Contact</b>	Irritating to skin.
<b>Ingestion</b>	Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cetearyl alcohol	10000 mg/kg ( Rat )	8000 mg/kg ( Rabbit )	
Propylene glycol	20000 mg/kg ( Rat )	20800 mg/kg ( Rabbit )	
Hydroxypropylcellulose	10200 mg/kg ( Rat )		
Silicon dioxide	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	>2.2 mg/L ( Rat ) 4 h
Potassium nitrate	3015 mg/kg ( Rat )		
Hydrogen peroxide	801 mg/kg ( Rat )	2000 mg/kg ( Rabbit ) 4060 mg/kg ( Rat )	2 mg/L ( Rat ) 4 h

### Chronic Toxicity

<b>Chronic Toxicity</b>	Prolonged or repeated exposure increases the risk.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Silicon dioxide		Group 3		
Potassium nitrate		Group 2A		X
Hydrogen peroxide	A3	Group 3		

#### **ACGIH: (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

<b>Target Organ Effects</b>	Eyes. Blood. Kidney. Respiratory system. Skin. Ingredients of the product create formation of methaemoglobin
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Ecotoxicity effects of component substances.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Propylene glycol	EC50: 19000 mg/L Pseudokirchneriella subcapitata 96 h	LC50: 51600 mg/L Oncorhynchus mykiss 96 h static LC50: 41-47 ml/L Oncorhynchus mykiss 96 h static LC50: 51400 mg/L Pimephales promelas 96 h static LC50: 710 mg/L Pimephales promelas 96 h	EC50 = 710 mg/L 30 min	EC50: >10000 mg/L Daphnia magna 24 h EC50: >1000 mg/L Daphnia magna 48 h Static
Hydrogen peroxide	EC50: 2.5 mg/L Chlorella vulgaris 72 h	LC50: 16.4 mg/L Pimephales promelas 96 h LC50: 18-56 mg/L Lepomis macrochirus 96 h static LC50: 10.0-32.0 mg/L Oncorhynchus mykiss 96 h static		EC50: 7.7 mg/L Daphnia magna 24 h EC50: 18 - 32 mg/L Daphnia magna 48 h Static
Glycerin		LC50: 51-57 ml/L Oncorhynchus mykiss 96 h static		EC50: >500 mg/L Daphnia magna 24 h
Silicon dioxide	EC50: 440 mg/L Pseudokirchneriella subcapitata 72 h	LC50: 5000 mg/L Brachydanio rerio 96 h static		EC50: 7600 mg/L Ceriodaphnia dubia 48 h

**Persistence and Degradability** No information available..

Chemical Name	Log Pow
Glycerin	-1.76

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Do not re-use empty containers. Dispose of in accordance with local regulations.

**US EPA Waste Number** D001

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

Chemical Name	California Hazardous Waste
Hydrogen peroxide	Toxic Corrosive Ignitable Reactive
Potassium nitrate	Ignitable Reactive

**14. TRANSPORT INFORMATION****DOT**

UN-No	UN2984
Proper Shipping Name	Hydrogen peroxide, aqueous solutions
Hazard Class	5.1
Packing Group	III
Description	UN2984, Hydrogen peroxide, aqueous solutions, 5.1, PG III
Emergency Response Guide Number	140

**TDG**

UN-No	UN2984
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Packing Group	III
Description	HYDROGEN PEROXIDE, AQUEOUS SOLUTION,5.1,UN2984,PG III

**MEX**

UN-No	UN2984
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Packing Group	III
Description	UN2984 Hydrogen peroxide, aqueous solution,5.1,III

**ICAO**

UN-No	UN2984
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Packing Group	III
Description	Hydrogen peroxide, aqueous solution,5.1,UN2984,PG III

**IATA**

UN-No	UN2984
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Packing Group	III
ERG Code	5L
Description	UN2984,Hydrogen peroxide, aqueous solution,5.1,PG III

**IMDG/IMO**

UN-No	UN2984
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Packing Group	III
EmS No.	F-H, S-Q
Description	UN2984, Hydrogen peroxide, aqueous solution,5.1,PG III

**RID**

UN-No	UN2984
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Packing Group	III
Classification Code	O1
Description	UN2984 Hydrogen peroxide, aqueous solution,5.1,III,RID
ADR/RID-Labels	5.1

**ADR**

**UN-No** UN2984  
**Proper Shipping Name** Hydrogen peroxide, aqueous solution  
**Hazard Class** 5.1  
**Packing Group** III  
**Classification Code** O1  
**Description** UN2984 Hydrogen peroxide, aqueous solution,5.1,III

**ADN**

**UN-No** UN2984  
**Proper Shipping Name** Hydrogen peroxide, aqueous solution  
**Hazard Class** 5.1  
**Packing Group** III  
**Classification Code** O1  
**Special Provisions** 65  
**Description** UN2984 Hydrogen peroxide, aqueous solution,5.1,III  
**Hazard Labels** 5.1  
**Limited Quantity** LQ13

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS</b>	Complies
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Potassium nitrate	7757-79-1	4	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	Yes

**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):



**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):

**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
Hydrogen peroxide	X	X	X		X
Urea peroxide		X			
Potassium nitrate	X	X	X		X

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

Moderate risk, Grade 2

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

**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**

Not subject to WHMIS classification

**16. OTHER INFORMATION****Prepared By**

Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date**

13-Nov-2009

**Revision Date****Revision Note**

Initial Release.

**General 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 Safety Data Sheet**