

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

Skin

Inhalation

Ingestion

Severely irritating to eyes. Risk of serious damage to eyes.
 Irritating to skin. May cause inflammation
 Irritating to respiratory system. May be harmful if inhaled.
 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

Eye Contact	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.
Skin Contact	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If large quantities of this material are swallowed, call a physician immediately.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes.
Environmental Precautions	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.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	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.
Other Information	Keep combustibles (wood, paper, oil, etc) away from spilled material

7. HANDLING AND STORAGE

Handling	Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or spray mist.
Storage	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 ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	
Silicon dioxide 7631-86-9	10 mg/m ³	20 mppcf TWA; ((80)/(% SiO ₂) mg/m ³)	IDLH: 3000 mg/m ³ TWA: 6 mg/m ³
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³ (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m ³	IDLH: 75 ppm TWA: 1.4 mg/m ³ 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

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Inhalation	Irritating to respiratory system.
Eye Contact	Severely irritating to eyes May cause irreversible damage to eyes.
Skin Contact	Irritating to skin.
Ingestion	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

Chronic Toxicity Prolonged or repeated exposure increases the risk.

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

Target Organ Effects Eyes. Blood. Kidney. Respiratory system. Skin. Ingredients of the product create formation of methaemoglobin

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

15. REGULATORY INFORMATION**International Inventories**

TSCA Complies
DSL Complies
EINECS Complies
ENCS Does not comply
IECSC Complies
KECL Complies
PICCS Complies
AICS 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

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard 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 ³ Mexico: TWA= 1 ppm Mexico: STEL= 2 ppm Mexico: STEL= 3 mg/m ³

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