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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

| | |
|-----------------------------------|--|
| 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 | | |
| Flash Point | Not applicable. | Autoignition Temperature | No information available |
| Decomposition Temperature | No information available | Boiling Point/Range | No information available |
| Melting Point/Range | No information available | | |
| Flammability Limits in Air | No information available | Explosion Limits | No information available |
| | | | |
| Specific Gravity | No data available | Water Solubility | Miscible with water |
| Solubility | Insoluble. | Evaporation Rate | No information available |
| Vapor Pressure | No data available | Vapor Density | No data available |
| VOC Content (%) | 51.864 | Viscosity | 100,000-600,000 cps |

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
13-Nov-2009

Issuing Date**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