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Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Contrastpm 20%

Recommended Use Dental whitening gel

Synonyms 20% carbamide peroxide gel

Distributor

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

Emergency Telephone Number 800-817-3636

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Harmful by inhalation
Causes severe skin burns
Risk of serious damage to eyes
May cause adverse kidney effects

Appearance White

Physical State Liquid.

Odor Mint-like

Potential Health Effects

Principle Routes of Exposure Inhalation. Skin contact. Eye contact.

Acute Toxicity

Eyes

Irritating to eyes. Risk of serious damage to eyes.

Skin

Causes burns.

Inhalation

Harmful by inhalation. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion

May cause gastrointestinal discomfort if consumed in large amounts.

Chronic Effects

Prolonged or repeated contact may dry skin and cause irritation. Avoid repeated exposure.

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
Glycerin	56-81-5	10-20
Urea peroxide	124-43-6	1-10
Hydrogen peroxide	7722-84-1	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. Call a physician immediately.
Skin Contact	Call a physician immediately.
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.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Oxidizer.			
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 (NOx). Aldehydes. On decomposition product releases oxygen which may intensify fire.			
<u>Explosion Data</u>				
Sensitivity to Mechanical Impact	None.			
Sensitivity to Static Discharge	None.			
Specific Hazards Arising from the Chemical	Will ignite combustible materials (wood, paper, oil, debris, etc.). 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 0	Personal Protection B

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with the skin and the eyes.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers.
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, eyes and clothing.
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
Calcium carbonate 471-34-1		TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 15 mg/m ³ (vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³ respirable dust TWA: 10 mg/m ³ total dust
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	
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
Silica, amorphous, fumed, crystal-free 112945-52-5	10 mg/m ³	TWA: 20 mppcf; ((80)/(% SiO ₂) mg/m ³)	IDLH: 3000 mg/m ³ TWA: 6 mg/m ³

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
Engineering Measures	Showers Eyewash stations Ventilation systems
<u>Personal Protective Equipment</u>	
Eye/Face Protection	Tightly fitting safety goggles.
Skin and Body Protection	Impervious gloves.
Respiratory Protection	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. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White.	Odor	Mint-like.
Odor Threshold	No information available.	Physical State	Liquid
pH	5.7-6.3		
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	No information available	Evaporation Rate	No information available
Vapor Pressure	No data available	Vapor Density	No data available
VOC Content (%)	61.76	Viscosity	250,000 - 1,200,000 cps

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions. Decomposes on heating
Incompatible Products	Strong oxidizing 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 Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium nitrate	3015 mg/kg (Rat)		
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

Chronic Toxicity

Chronic Toxicity

Prolonged or repeated contact may dry skin and cause irritation. Avoid repeated exposure.

Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Potassium nitrate		Group 2A		X
Hydrogen peroxide	A3	Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Target Organ Effects

Eyes. Kidney. Respiratory system. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
Glycerin		LC50: 51-57 ml/L Oncorhynchus mykiss 96 h static		EC50: >500 mg/L Daphnia magna 24 h
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

Chemical Name	Log Pow
Glycerin	-1.76

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

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

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

15. REGULATORY INFORMATION

International Inventories

TSCA	Exempt
DSL	Complies
NDSL	Complies
EINECS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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	2	1.0

SARA 311/312 Hazard Categories

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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
Potassium nitrate	X	X	X		X
Propylene glycol		X	X		X
Urea peroxide		X			
Hydrogen peroxide	X	X	X		X
Disodium phosphate	X	X			

International Regulations

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

E Corrosive material

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

Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501
10-May-2010

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