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Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Contrast Am 22% in office whitening gel

UN-No UN2014

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
Vapors may be irritating to eyes, nose, throat, and lungs
May cause sensitization by skin contact
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.
May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.
Inhalation of vapors in high concentration may cause irritation of respiratory system.
Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

Chronic Effects

May produce an allergic reaction.

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 %
Water	7732-18-5	30-50
Polyethylene-polypropylene glycol	9003-11-6	20-40
Hydrogen peroxide	7722-84-1	19.8-23.5
Glycerin	56-81-5	1-10
Propylene glycol	57-55-6	1-5
Sodium nitrate	7631-99-4	1-3
Eugenol	97-53-0	0.5-1

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. Immediate medical attention is required.
Skin Contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see 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. Consult a physician. 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. May explode from heat or contamination. Some will react explosively with hydrocarbons (fuels). Containers may explode when heated.
Flash Point	Not applicable.
Suitable Extinguishing Media	Use water. Do not use dry chemicals or foams. CO ₂ or Halon may provide limited control.
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. May ignite combustibles (wood, paper, oil, clothing, etc.)
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	
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

Tightly fitting safety goggles.
Protective gloves. Lightweight protective clothing.
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. 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	7.5-9.5	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	Specific Gravity	No data available
Flammability Limits in Air	No information available	Solubility	Insoluble.
Specific Gravity	1.05-1.15	Vapor Pressure	No data available
Water Solubility	Miscible with water	VOC Content (%)	5.74
Evaporation Rate	No information available		
Vapor Density	No data available		
Viscosity	100,000-800,000 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	May cause irritation of respiratory tract.
Eye Contact	Severely irritating to eyes May cause irreversible damage to eyes.
Skin Contact	May cause irritation.
Ingestion	Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen peroxide	801 mg/kg (Rat)	2000 mg/kg (Rabbit) 4060 mg/kg (Rat)	2 mg/L (Rat) 4 h
Sodium nitrate	1267 mg/kg (Rat)		
Propylene glycol	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	
Polyethylene-polypropylene glycol	5700 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity May produce an allergic reaction.

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

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

ACGIH: (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen

Sensitization May cause sensitization by skin contact..

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)
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
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
Sodium nitrate		LC50: 2000 mg/L Lepomis macrochirus 96 h static LC50: 994.4-1107 mg/L Oncorhynchus mykiss 96 h static		
Eugenol		LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static		

Persistence and Degradability No information available..

Chemical Name	Log Pow
Glycerin	-1.76
Sodium nitrate	-3.8
Eugenol	2.27

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
Sodium nitrate	Toxic Ignitable Reactive

14. TRANSPORT INFORMATION

DOT

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solutions
Hazard Class	5.1
Subsidiary Class	8
Packing Group	II
Description	UN2014, Hydrogen peroxide, aqueous solutions, 5.1 (8), PG II
Emergency Response Guide Number	140

TDG

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Subsidiary Class	8
Packing Group	II
Description	HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1, UN2014, PG II

MEX

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Subsidiary Class	8
Packing Group	II
Description	UN2014, Hydrogen peroxide, aqueous solution, 5.1, II

ICAO

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Subsidiary Class	8
Packing Group	II
Description	Hydrogen peroxide, aqueous solution, 5.1(8), UN2014, PG II

IATA

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Subsidiary Class	8
Packing Group	II
ERG Code	5C
Description	UN2014, Hydrogen peroxide, aqueous solution, 5.1(8), PG II

IMDG/IMO

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Subsidiary Class	8
Packing Group	II
EmS No.	F-H, S-Q
Description	UN2014, Hydrogen peroxide, aqueous solution, 5.1(8), PG II

RID

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1

Packing Group	II
Classification Code	OC1
Description	UN2014, Hydrogen peroxide, aqueous solution, 5.1, II, RID
ADR/RID-Labels	5.1 + 8

ADR

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Packing Group	II
Classification Code	OC1
Description	UN2014, Hydrogen peroxide, aqueous solution, 5.1, II
ADR/RID-Labels	8

ADN

UN-No	UN2014
Proper Shipping Name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Packing Group	II
Classification Code	OC1
Description	UN2014, Hydrogen peroxide, aqueous solution, 5.1, II
Hazard Labels	5.1 + 8
Limited Quantity	LQ10

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Not listed
NDSL	Complies
EINECS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	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 %
Sodium nitrate	7631-99-4	1.2	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
Sodium nitrate	X	X	X		X
Propylene glycol		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