SAFETY DATA SHEET

Issuing Date 15-Apr-2015 **Revision Date** 15-Apr-2015 **ECR#** 23477

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name **LumiSmile White 22%**

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Vital teeth bleaching

Uses advised against No information available

Supplier's details

Supplier Address
DenMat
1017 W. Central Ave.
Lompoc, CA 93436
TEL: 805-346-3700

Manufacturer Address
DenMat
1017 W. Central Ave.
Lompoc, CA 93436
TEL: 805-346-3700

Emergency telephone number

Emergency Telephone Number 805-346-3700

2. HAZARDS IDENTIFICATION

Classification

Serious Eye Damage/Eye Irritation	Category 1

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word **Danger**

Hazard Statements
• Causes serious eye damage

Appearance Colorless **Physical State** Liquid. **Odor** Mint

Precautionary Statements

Prevention

• Wear eye/face protection.

General Advice

• None

Eyes

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

• Immediately call a POISON CENTER or doctor/physician.

Storage

• None

Disposal

• None

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Prolonged or repeated skin contact may cause severe irritation.

17.2% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Glycerin	56-81-5	30-60	*
Hydrogen peroxide	7722-84-1	1-3	*
Urea hydrogen peroxide	124-43-6	15-20	*
Potassium hydroxide	1310-58-3	0.5-1.5	*

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if irritation persists.

Skin Contact Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

Inhalation Not an expected route of exposure. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center immediately.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Protection of First-aiders Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Serious eye irritation or damage.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors.

Explosion Data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters
Wear self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with the skin and the eyes. Wash thoroughly after handling. Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for Cleaning Up Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children.

Incompatible Products Strong reducing agents. Metals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerin 56-81-5	TWA: 10 mg/m^3 mist	-	-
Carbomer 9003-01-4	TWA: 1 mg/m^3 Cu dust and mist	-	-
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 ppm TWA: 1.4 mg/m^3
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m^3	(vacated) Ceiling: 2 mg/m^3	Ceiling: 2 mg/m^3
Sodium fluoride 7681-49-4	TWA: 2.5 mg/m^3 F	TWA: 2.5 mg/m^3 F (vacated) TWA: 2.5 mg/m^3	IDLH: 250 mg/m^3 F TWA: 2.5 mg/m^3 F

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection If splashes are likely to occur, wear: Safety glasses with side-shields.
Skin and Body Protection Protective 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. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	**Appearance**	Colorless
Odor	Mint	**Odor Threshold**	No information available

Property	Values	Remarks/ - Method
pH	5.8 - 6.2	None known
Melting Point/Range	-5 °C	None known
Boiling Point/Range	> 100 °C	None known
Flash Point	Not applicable.	None known
Evaporation rate	No data available	None known

Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	1.05-1.15 @ 25°C	None known
Water Solubility	Miscible with water	None known
Solubility in other solvents	Insoluble Insoluble.	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	250k - 1MM cPs	None known

Flammable Properties Not flammable

Explosive Properties No data available
Oxidizing Properties No data available

Other information

VOC Content (%) Not applicable.

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong reducing agents. Metals.

Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product is safe for its intended use based on the formulation, testing results, and the long history of safe consumer use.

Inhalation Not an expected route of exposure. Inhalation of mist may cause irritation to the respiratory system.

Eye Contact Not an expected route of exposure. Expected to be severely irritating or corrosive to eyes based on components present in formulation.

Skin Contact Based on the ingredients present in the formulation, prolonged or repeated skin contact may be irritation, or severely irritating, to the skin. However, testing of tooth whiteners containing 10-22% urea hydrogen peroxide has shown to not cause primary skin irritation to the skin of animals. Irritation may occur to mucous membranes due to the oxidative nature of the hydrogen peroxide present, especially after prolonged or repeated contact.

Ingestion Not expected to be toxic following ingestion. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerin	= 12600 mg/kg (Rat)	21900 mg/kg (Rat)	-
Potassium hydroxide	= 214 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes.

Delayed and immediate effects and also chronic effects from short and long term exposure

Corrosivity Causes serious eye irritation. Risk of serious damage to eyes.
Sensitization No information available.
Mutagenic Effects Multiple mutagenicity studies of tooth whiteners containing hydrogen peroxide or urea hydrogen peroxide did not show mutagenic effects.
Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Chemical Name	ACGIH	IARC
Hydrogen Peroxide	A3	Group 3
Carbomer		Group 3

Reproductive Toxicity Not classified due to lack of data.
Developmental Toxicity Not classified due to lack of data.
STOT - single exposure None under normal use conditions.
STOT - repeated exposure None under normal use conditions.
Chronic Toxicity Avoid repeated exposure. Prolonged exposure may cause chronic effects.
Target Organ Effects Eyes. Gastrointestinal tract (GI). Mucous membrane.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product
Acute Toxicity 17.2% of the mixture consists of ingredient(s) of unknown toxicity.
The following values are calculated based on chapter 3.1 of the GHS document:
LD50 Oral >5000 mg/kg; Acute toxicity estimate
LD50 Dermal >5000 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity
Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (water Flea)
Hydrogen peroxide 7722-84-1	EC50 72 h: = 2.5 mg/L (Chlorella vulgaris)	LC50 96 h: 10.0-32.0 mg/L static (Oncorhynchus mykiss) LC50 96 h: 18-56 mg/L static (Lepomis macrochirus) LC50 96 h: = 16.4 mg/L (Pimephales promelas)		EC50 48 h: 18 - 32 mg/L Static (Daphnia magna) EC50 24 h: = 7.7 mg/L (Daphnia magna)
Glycerin 56-81-5	-	LC50 96 h: 51 - 57 mL/L static (Oncorhynchus mykiss)	-	EC50 24 h: > 500 mg/L (Daphnia magna)
Potassium hydroxide 1310-58-3		LC50 96 h: = 580 mg/L static (Gambusia affinis)		
Carbomer 9003-01-4		LC50 96 h: = 80 mg/L static (Gambusia affinis)		EC50 96 h: = 168 mg/L (water flea)

Persistence and Degradability No information available.

Bioaccumulation No information available.

Chemical Name	Log Pow
Glycerin	-1.76
Potassium hydroxide	0.83

Other Adverse Effects

No information available.

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.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Substances comply or are exempt
ENCS	Substances comply or are exempt
IECSC	Substances comply or are exempt
KECL	Substances comply or are exempt
PICCS	Substances comply or are exempt
AICS	Substances comply or are exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

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

Clean Water Act

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen peroxide	X	X	X	X
Carbomer		X		
Potassium hydroxide	1000 lb			X

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Hydrogen peroxide		1000 lb	
Potassium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

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	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Glycerin	X	X			X
Urea peroxide	X				
Hydrogen peroxide	X	X			X
Potassium hydroxide	X	X	X		X
Sodium fluoride	X	X	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	**Health Hazard**	2	**Flammability**	0	**Instability**	0	**Physical and Chemical Hazards** -
HMIS	**Health Hazard**	2	**Flammability**	0	**Physical Hazard**	0	**Personal Protection** X

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General Disclaimer

The information provided on this SDS 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