



SAFETY DATA SHEET

Issue Date 17-Jan-2013

Revision Date 18-Jan-2018

Version 2

1. IDENTIFICATION

Product Identifier

Product Name Lemon Prep

Other means of identification

SDS # MD0019

Product Code MD0019

Recommended use of the chemical and restrictions on use

Recommended Use Skin Cleanser.

Details of the supplier of the safety data sheet

Supplier Address

Mavidon Medical Products
6625 White Dr
Riviera Beach, FL 33407 USA

Emergency telephone number

Company Phone Number 561-585-2227

Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product

Appearance Off-white gel

Physical state Gel

Odor Lemon

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	CAS No	Weight-%	Trade Secret
Water	7732-18-5	Balance	*
1,2	57-55-6	<6	*
Pumice	1332-09-8	<5	*
Germaben II	Proprietary	<1	*
Carbomer	9003-01-4	<2	*
D-Limonene	5989-27-5	<.5	*
EDTA	143-19-1	<1	*
Potassium	7447-40-7	<1	*
Caustic Soda	1310-73-2	<1	*

4. FIRST AID MEASURES

First aid measures

General advice	Provide this SDS to medical personnel for treatment.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Eye contact	Avoid rubbing eyes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Get medical attention. Do not induce vomiting without medical advice.
Skin Irritant	Any persistent redness, soreness, burning, itching or swelling of skin should be reported immediately to a physician.

Most important symptoms and effects, both acute and delayed

Symptoms	Not determined.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, carbon dioxide (CO₂), dry chemical, alcohol foam.

Unsuitable Extinguishing Media Not determined.

Specific hazards arising from the chemical

Closed containers may explode due to buildup of pressure when exposed to extreme heat.

Hazardous combustion products Carbon, hydrogen, and oxygen. Smoke, fumes or vapors, and oxides of carbon.

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. Water may be used to cool containers to prevent pressure build up.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required.
Environmental precautions	Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so. For small spills, absorb on polypads or other suitable non-reactive absorbent materials.
Methods for cleaning up	All spills- confine spill, soak up with approved absorbent, and shovel product into approved container for disposal. Flush area with water. Recover flush for proper disposal.

Personal precautions Use personal protective equipment as required.

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. For small spills, absorb on polypads or other suitable non-reactive absorbent materials.

Methods for cleaning up All spills- confine spill, soak up with approved absorbent, and shovel product into approved container for disposal. Flush area with water. Recover flush for proper disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Protect container from physical damage.

Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from extreme temperatures. Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Strong oxidizing agents. strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Caustic Soda 1310-73-2	Ceiling: 2 mg/m ₃	TWA: 2 mg/m ₃ (vacated) Ceiling: 2 mg/m ₃	IDLH: 10 mg/m ₃ Ceiling: 2 mg/m ₃

Appropriate engineering controls

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

Individual protection measures, such as personal protective equipment

Eye/face protection Goggles.

Skin and body protection Not applicable.

Respiratory protection None required; however, if misting occurs, NIOSH approved respirator capable of removing particulate from air must be worn. Respiratory protection must be provided in accordance with OSHA regulations (29 CFR 1910.134) or European Standard EN 149, as applicable.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Gel	Odor	Lemon
Appearance	Off-white gel	Odor threshold	Not determined
Color	Off-white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.0-7.5	
Melting point/freezing point	Not determined	
Boiling point/boiling range	100 °C / 212 °F	
Flash point	Not determined	
Evaporation rate	< 1	(water = 1)
Flammability (solid, gas)	Not determined	
Flammability Limits in Air		
Upper flammability limits	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	17mm/Hg	@ 68°F (20C)
Vapor density	>1	(Air=1)
Specific Gravity	1.1-1.15	
Water solubility	emulsifiable	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity	Not determined	
Explosive properties	Not determined	
Oxidizing properties	Not determined	

Other Information**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

Keep out of reach of children. Extreme temperatures. Open flames. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents. strong acids.

Hazardous Decomposition Products

Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Avoid contact with eyes.
Skin Contact	Not Applicable.
Ingestion	Harmful if swallowed. May cause discomfort if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
1,2 Propanediol 57-55-6	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-
Germaben II (Preservative)	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-
Carbomer 9003-01-4	= 2500 mg/kg (Rat)	-	-
D-Limonene 5989-27-5	4400 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-
Potassium Chloride 7447-40-7	= 2600 mg/kg (Rat)	-	-
Caustic Soda 1310-73-2	-	= 1350 mg/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbomer 9003-01-4		Group 3		
D-Limonene 5989-27-5		Group 3		

*IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"*

Numerical measures of toxicity- Product

Not determined

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	344828 mg/kg
ATEmix (dermal)	357143 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2 Propanediol 57-55-6	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50		10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static
Germaben II (Preservative)	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50		10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static
Carbomer 9003-01-4		580: 96 h Lepomis macrochirus mg/L LC50		168: 96 h water flea mg/L EC50
D-Limonene 5989-27-5		0.619-0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50		
Potassium Chloride 7447-40-7	2500: 72 h Desmodemus subspicatus mg/L EC50	1060: 96 h Lepomis macrochirus mg/L LC50 static 750 - 1020: 96 h Pimephales promelas mg/L LC50 static		825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static
Caustic Soda 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		

Persistence and degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
D-Limonene 5989-27-5	Toxic
Caustic Soda 1310-73-2	Toxic Corrosive

Other adverse effects

Not determined

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

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 Chemical Substances/European 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

US Federal Regulations

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

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Caustic Soda 1310-73-2	1000 lb			X
Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)	
Caustic Soda 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ	

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,2 Propanediol 57-55-6	X		X
Germaben II (Preservative)	X		X
Caustic Soda 1310-73-2	X	X	X

U.S. EPA Label Information

16. OTHER INFORMATION

NFPA	Health hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection B- Safety Glasses, Gloves

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Revision Note Formula Confirmation

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet

