

Technical Dossier

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SHEPARD BROS. INC.

PalmaClean[™] E2 Liquid Antimicrobial Hand Soap

DESCRIPTION AND APPLICATION

PalmaClean™ E2 Liquid Antimicrobial Hand Soap is an NSF-registered E2 classification, benzalkonium chloride-based product. This product meets all USDA requirements for food handling.

FEATURES AND BENEFITS

- NSF-registered E2 classification (Nonfood Compounds Program Listed (E2) Registration # 151629)
- 0.12% Benzalkonium Chloride (BAC) formula
- pH balanced to skin (pH 5.5) and formulated with emollients to keep hands soft and healthy
- Meets all USDA requirements for food handling
- Kosher certified and Pareve
- Rich, thick lather provides greater product contact with hands for optimal cleaning and reduced cross-contamination in heavily soiled production areas

EFFICACY - KILLS 99.999% OF 26 TESTED PATHOGENS IN 15 SECONDS

| Acinetobacter baumannii ATCC 19606 | Haemophilus influenzae ATCC 19418 | Staphylococcus aureus ATCC 6538 | |
|---------------------------------------|---|---|--|
| Bacteroides fragilis ATCC 25285 | Klebsiella pneumoniae ATCC 4352 | Staphylococcus aureus ATCC 29213 | |
| Enterobacter aerogenes ATCC 13048 | Klebsiella oxytoca ATC 43165 | Staphylococcus aureus MRSA ATCC 33592 | |
| Enterococcus faecalis ATCC 29212 | Listeria monocytogenes ATCC 19114 | Staphylococcus epidermis ATCC 12228 | |
| Enterococcus faecalis VRE ATCC 700221 | Micrococcus luteus ATCC 7468 | Staphylococcus haemolyticus ATCC 29970 | |
| Enterococcus faecium ATCC 19434 | Proteus mirabilis ATCC 7002 | Staphylococcus homonis ATCC 27844 | |
| Escherichia coli ATCC 11229 | Pseudomonas aeruginosa ATCC 15442 | Staphylococcus saprophyticus ATCC 15305 | |
| Escherichia coli ATCC 25922 | Salmonella choleraesuis ATCC 10708 Streptococcus pneumoniae ATCC 6302 | | |
| Escherichia coli O157:H7 ATCC 43895 | Serratia marcescens ATCC 14756 | | |

PROPERTIES AND SAFE HANDLING

This product may darken in color over time due to the active ingredient Benzalkonium Chloride, with no deleterious effect on the efficacy of the product so long as the product is used prior to the expiration date. A Safety Data Sheet containing detailed information regarding the properties and safe handling of **PalmaClean™ E2 Liquid Antimicrobial Hand Soap** is available upon request. Dispensers for this product are available from Shepard Bros.

(Rev. 6/2016)

The technical information and use suggestions herein are presented in good faith and are believed to be reliable. They do not constitute a part of our terms and conditions of sale unless specifically incorporated in our Order Acknowledgement. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct, or that the product described is merchantable or fit for a particular purpose, or that said information, data or product can be used without infringing patents of a third party. The purchaser must determine individually, by preliminary tests or otherwise, the suitability of this product for the intended purpose.



PalmaClean E2 Foaming Antimicrobial Hand Soap

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: SBPCLNF.4/1G

Product Name: PalmaClean E2 Foaming Antimicrobial Hand Soap

Company Name: Shepard Bros., Inc. Phone Number:

503 S. Cypress St. +1 (562)697-1366

La Habra, CA 90631

Web site address: www.shepardbros.com

Emergency Contact: CHEMTREC +1 (800)424-9300

Product Category: Hand Soap

2. HAZARDS IDENTIFICATION

GHS Signal Word: None

GHS Hazard Phrases: No phrases apply.
GHS Precaution Phrases: No phrases apply.
GHS Response Phrases: No phrases apply.
GHS Storage and Disposal No phrases apply.

Phrases: This product is regulated as a cosmetic product and is labeled in accordance with the US

Additional Hazards Food and Drug Administration regulations which take precedence over OSHA Hazard

Information Communication labeling.

Hazard Rating System:

Flammability Instability
Health
NFPA: Special Hazard

This material is safe for users under normal and reasonably foreseeable use. While this

Potential Health Effects

(Acute and Chronic): material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be

retained and available for employees and other users of this product.

Hazards not otherwise classified (HNOC) or not covered by GHS: None.

Inhalation:Not expected from normal use.Skin Contact:Not expected from normal use.Eye Contact:May cause slight eye irritation.Ingestion:Not expected from normal use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS# | | Hazardous Components (Chemical Name) | Concentration |
|------|------------|--------------------------------------|----------------|
| | 56-81-5 | Glycerin | 5.00 - 10.0 % |
| | 8001-54-5 | Benzalkonium chloride | 0.100 - 1.00 % |
| | 61789-40-0 | Cocamidopropyl betaine | 1.00 - 5.00 % |



SAFETY DATA SHEET PalmaClean E2 Foaming Antimicrobial Hand Soap

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4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation: Not expected to be a primary route of exposure. If breathed in, move person into fresh

air.

In Case of Skin Contact: Rinse skin with water/shower. If skin irritation occurs, get medical advice/attention.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. If eye irritation persists, get medical

advice/attention.

In Case of Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or

water. Never give anything by mouth to an unconscious person. Get medical

advice/attention.

Note to Physician: Treat symptomatically and supportively. Show this safety data sheet to the doctor in

attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: > 200 F (93.3 C) Method Used: Estimate

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Use water fog, CO2, or foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand,

MSHA/NIOSH approved (or equivalent), and full protective gear. Use water spray to

keep fire-exposed containers cool.

Flammable Properties and

Hazards:

No data available.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use proper personal protective equipment as indicated in Section 8.

Steps To Be Taken In Case Material Is Released Or

Spilled:

Ensure adequate ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent further leakage or spillage if safe to do so. Contain spillage, and then collect 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). Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions To Be Taken in

Handling:

Avoid contact with eyes. Avoid inhalation of vapor or mist.

Precautions To Be Taken in

Storing:

Keep container tightly closed in a dry and well-ventilated place. Store between 40F -

100F Protect containers against damage.

Other Precautions: Handle in accordance with good industrial hygiene and safety practices. Keep out of

reach of children.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS# **Partial Chemical Name OSHA TWA ACGIH TWA Other Limits** 56-81-5 PEL: 15 (dust); 5 (resp.) TLV: 10 mg/m3 No data. Glycerin mg/m3 No data. No data. 8001-54-5 Benzalkonium chloride No data. 61789-40-0 No data. No data. No data. Cocamidopropyl betaine

Respiratory Equipment

(Specify Type):

Not required under normal conditions of use with adequate ventilation. If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory

protection should be worn.

Safety glasses with side shields. **Eye Protection:**

Not required under normal use conditions. **Protective Gloves:**

Wear appropriate protective clothing to minimize contact with skin. Other Protective Clothing:

Engineering Controls

(Ventilation etc.):

Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions in the work area, below the OSHA-PEL or ACGIH-TLV. Facilities storing or

utilizing this material should be equipped with an eyewash facility, and a safety shower is

recommended.

Practices:

Work/Hygienic/Maintenance Handle in accordance with good industrial hygiene and safety practice. Wash hands

before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid Appearance: Clear. Aqueous. Solution. Appearance and Odor:

Odor: Mild.

NA **Melting Point:**

Boiling Point: 212 F (100 C)

Autoignition Pt: No data.

Flash Pt: > 200 F (93.3 C) Method Used: Estimate

NA

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 0.91 Density: NA Vapor Pressure (vs. Air or NA

mm Hg):

Vapor Density (vs. Air = 1): NA

Evaporation Rate: NA Solubility in Water: Soluble

Saturated Vapor **Concentration:**

Viscosity: NA

5.3-5.7 - +/- 1 pH:

Percent Volatile: No data.



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10. STABILITY AND REACTIVITY

Reactivity: Not reactive at normal temperatures and pressures.

Stability: Unstable [] Stable [X]

Conditions To Avoid -

Instability:

Excess heat, freezing temperatures,

This product may darken in color over time due to the active ingredient Benzalkonium Chloride, with no deleterious effect on the efficacy of the product so long as the product

is used prior to the expiration date.

Incompatibility - Materials To None known.

Avoid:

Hazardous Decomposition or None known.

Byproducts:

Possibility of Hazardous

Reactions:

Will occur [] Will not occur [X]

_ ... _

Conditions To Avoid - Hazardous Reactions:

No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available. Neurotoxicity: No information available.

Other Studies: CAS# 56-81-5:

Acute toxicity, LD50, Oral, 12600 mg/kg.
Acute toxicity, LD50, Dermal, Rabbit, 10 g/kg
Acute toxicity, LC50, Inhalation, Rat, > 570 mg/m3.

Irritation or Corrosion: May cause slight eye irritation.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological

Information:

The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices. Additional

information is available from the address listed in Section 1 upon request.

Results of PBT and vPvB

assessment:

No data available.

Persistence and

and No data available.

Degradability:

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.



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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.

DOT Hazard Class: UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS# **Hazardous Components (Chemical Name)** S. 302 (EHS) S. 304 RQ S. 313 (TRI) 56-81-5 Glycerin No No No 8001-54-5 Benzalkonium chloride No No No 61789-40-0 Cocamidopropyl betaine No No No

CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists

56-81-5 Glycerin TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No

8001-54-5 Benzalkonium chloride TSCA: No; CA PROP.65: No; CA TAC, Title 8: No

61789-40-0 Cocamidopropyl betaine TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No

16. OTHER INFORMATION

Revision Date: 06/04/2016
Preparer Name: Crystal Maira

Additional Information: 6/4/2016 Routine review and updates to section 8,10,11

Company Policy or

Disclaimer:

Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information,

and we assume no liability resulting from its use. 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. Users should make their own investigations to determine the suitability of the information for their

particular purposes.