

ECOSAM® HAND DISHWASHING LIQUID

Safety-Data-Sheet

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This Safety Data Sheet has been prepared in accordance with the SS586 Specification Hazard Communication for Hazardous Chemicals and Dangerous Goods.

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SECTION I - PRODUCT IDENTIFICATION

Identify: **Hand Dishwashing Liquid. Finished Product.**
 Brands: **ECOSAM®.**
 Variations: **Lemon, Apple Blossom.**

Inkjet Systems Telephone Number: +65 6333-3302
 or call your local physician.

SECTION II - HAZARDS IDENTIFICATION**Potential Health Hazards (Acute and Chronic):**

Ingestion: Ingestion may cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Skin: Transient irritation with prolonged exposure to concentrated material.

Inhalation: N/A

Signs and Symptoms of Exposure:

Ingestion: May result in nausea, vomiting, and/or diarrhoea.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.

Skin: Prolonged contact with concentrated material may be drying or transiently irritating to the skin.

Inhalation: N/A.

Potential Environmental Effects: N/A.

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients listed on the product label are: biodegradable surfactants and **no phosphate**. For antibacterial hand soaps, the active ingredient is benzalkonium chloride at 0.05%. Inactive ingredients for antibacterial hand soaps are listed in the Drug Facts box on the back label. Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

Chemical Name	Common Name	CAS No.	Composition Range	LD50/LC50
Alcohol Ethoxysulfate, sodium salt	Sodium Laureth Sulfate	68585-34-2	10-30% total anionic surfactant	LD50 (oral, rat) - >2g/kg

These substances are listed because in their pure bulk form they meet the OSHA and/or WHMIS definition of hazardous. Any hazards associated with this finished product are listed in Section II of this MSDS.

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: Drink 1 or 2 glasses of water.

Eye Contact: Flush thoroughly with water for 15 minutes.

Skin: If prolonged contact occurs, rinse thoroughly with water. If it spilled onto clothing, change clothes. If symptoms persist or recur, seek medical attention.

Inhalation: N/A.

Other: The consumer product package has the following precautionary statement on the back label: “For external use only. Keep out of the reach of children. If liquid gets in your eyes, rinse thoroughly with water. If swallowed, drink a glass of water to dilute.”

SECTION V - FIRE FIGHTING INFORMATION

Flammable Properties: The liquid hand dishwashing detergents have a flashpoint of 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup). However, the detergents do not sustain combustion according to ASTM D4206.

Flammable Properties: Upper Flammable Limit: N/A. Lower Flammable Limit: N/A.

Explosive Limits: UEL: N/A. LEL: N/A.

Auto-ignition Temperature: N/A.

Hazardous Combustion Products: N/A.

Explosion Data (Sensitivity to Mechanical Impact): N/A.

Explosion Data (Sensitivity to Static Discharge): N/A.

Extinguishing Media: Suitable: CO₂, water or dry chemical may be used. Unsuitable: N/K.

Protection of Firefighters: Specific Hazards Arising from the Material: None.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Solutions of the detergents may be allowed to be flushed down sewer - First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

Steps To Be Taken in Case Material is Released or Spilled: Prevent spills from reaching a waterway. Sorbents may be used. Read “Waste Disposal Method” below for further information.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: No special precautions necessary.

Precautions To Be Taken in Storage: No special precautions necessary.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended Exposure Guidelines: N/A.

Engineering Controls: N/A.

Personal Protective Equipment (PPE): N/A.

Eye/Face Protection: None required with normal household use.

Industrial Setting: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin Protection: None required with normal household use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used for prolonged direct contact.
Respiratory Protection: No special precautions for casual exposure.
Ventilation Local Exhaust: None required with normal consumer use. Special: None
Industrial (General): Normal/general dilution ventilation is acceptable. Other: None

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Clear, opaque or colored liquids.	Flash Point (Method Used): 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup) but do not sustain combustion according to ASTM D4206.
Odor: Perfumed	Reserve Alkalinity: N/A
Odor Threshold: N/A	Solubility in Water: Complete
Physical State: Liquid hand dishwashing solution.	Decomposition Temperature: N/K
Vapor Pressure (mm Hg): N/K	Evaporation Rate (nBuOAc=1): N/K
Vapor Density (Air=1): N/K	Specific Gravity/Density: ca. 1
Boiling Point: N/K	Melting/Freezing Point: ~ 30 °F (-1.1°C)
Partition Coefficient (n-octanol/water): N/K	pH (10% solution): 9
Volatile Organic Compound (VOC): Not applicable - Product not regulated for VOC Content at State or Federal level.	

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to Avoid: None known
Incompatible Materials: None
Hazardous Decomposition Products: None known
Possibility of Hazardous Reactions: None known

SECTION XI - TOXICOLOGICAL INFORMATION

Liquid hand dishwashing detergents have a relatively low order of toxicity, may cause transient irritation and are expected to be emetic.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished product is not carcinogenic. **NTP:** No. **IARC:** No. **OSHA:** No

SECTION XII - ECOLOGICAL INFORMATION

All surfactants are readily biodegradable.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS

Non Household Setting: Products covered by this SDS, in their original form, when disposed as waste, are considered **non hazardous waste** according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

California Hazardous Waste: Not hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

Household Use: Household product is safe for disposal down the drain during detergent use or in the trash. Dispose of empty bottle in the trash or recycle where facilities exist.

SECTION XIV - TRANSPORT INFORMATION

Products covered by this MSDS, in their original form, are not regulated for transportation.

Ground Transport (US DOT): Not regulated

Air Transport (IATA): Not regulated

Marine/Water Transport (IMDG): Not regulated

SECTION XV - REGULATORY INFORMATION

United States

All intentionally-added components of this product are listed on the US TSCA Inventory. This product is not subject to warning labeling under California Proposition 65.

EPA Reg. No.: Not Applicable.

This product contains the following SARA 313/302/304/311/312 chemicals: None.

This product contains the following CERCLA chemicals: None.

State Right-to-Know:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists: None.

Perfumes contained within the products covered by this SDS comply with appropriate IFRA guidance.

SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this SDS comply with appropriate IFRA guidance.

ECOSAM® Hazard Rating:

Health: 1

Flammability: 0

Reactivity: 0

4=EXTREME

3=HIGH

2=MODERATE

1=SLIGHT

0=NOT SIGNIFICANT

*N/A. Not Applicable. *N/K. Not Known.

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by ECOSAM® to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all inclusive document on worldwide hazard communication regulations.

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