

MATERIAL DATA SAFETY SHEET (1) Bio Pac, Inc. Rev 2-97

CONCENTRATED LAUNDRY, DISH (INCLUDING APPLE-DISH) AND CITRUS (INCLUDING HOUSEHOLD CLEANER), PINE FOREST BATH CLEANER, CLEANER LIQUIDS

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME..... Bio Pac, Inc.
ADDRESS..... 584 Pinto Court
Incline Village, NV 89451
EMERGENCY PHONE NUMBER.FOR TRANSPORTATION EMERGENCY call
CHEMTREC 1-800-424-9300
For ingestion or skin contact call
WEBCO at 1-508-943-2337
PHONE NUMBER..... 1-775-831-9493
EFFECTIVE DATE..... 08-30-91
CHEMICAL NAME..... LIQUID LAUNDRY DETERGENT
LIQUID DISH DETERGENT
LIQUID CITRUS ALL PURPOSE CLEANER
APPLE-ALOE DISHWASH LIQUID
PINE BATH CLEANER (BATH CLEANER)
TRADE NAME..... CONCENTRATED LAUNDRY LIQUID
CONCENTRATED DISH LIQUID
CONCENTRATED CITRUS CLEANER
CITRUS FRESH HOUSEHOLD CLEANER
PINE FOREST BATH CLEANER
OASIS DISH LIQUID
OASIS LAUNDRY LIQUID
DOT SHIPPING NAME
Laundry and dish liquids... COMPOUNDS, CLEANING, n.o.s.
Citrus and Household cleaner.....COMPOUND, CLEANING, LIQUID
(Combustible liquid)
D.O.T. I.D. NUMBER
Laundry and dish liquid... None
Citrus, Pine cleaner..... 1993
CHEMICAL FAMILY Cleaning compound
CHEMICAL COMMENT..... This product contains no chemicals
listed under Section 313 of Title III
of SARA.
CAS NUMBER..... CAS # for D-Limonene 5989-27-5
CHEMICAL FORMULA
Laundry liquid..... Water, mixture of anionic and non-ionic surfactants.
Dish Liquids..... Water, mixture of anionic and non-ionic surfactants.
Citrus and household cleaner Water, mixture of non-ionic surfactants, and citrus oil.
Bath cleaner Water, mixture of non-ionic surfactants, and pine oil.
MOLECULAR WT..... Not applicable for chemical mixture.

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	HAZARDOUS %	TLV (Units)
NONE (DISH AND LAUNDRY LIQUIDS)	0.0%	None
D-Limonene (CITRUS CLEANER)	15.0-25.0%	NE

SECTION III - PHYSICAL DATA

BOILING POINTS..... 212 F
VOLATILITY/VOL(%)
Laundry liquid..... <66.0%
Dish liquid..... <77.0%
Citrus, household cleaner, bath cleaner <75.0%
MELTING POINT..... Not determined
VAPOR PRESSURE (mm Hg)
Laundry and dish liquid... Not determined
Citrus, Pine, Bath household cleaner.... Non-volatile
VAPOR DENSITY (Air=1)..... Not determined
SOLUBILITY IN H2O..... Complete
APPEARANCE/ODOR
Laundry liquid..... Amber liquid w/citrus odor
Dish liquid..... Amber liquid w/citrus odor
Citrus, household cleaner. Yellow-orange liquid w/citrus odor
Pine Bath cleaner Clear with pine odor

SPECIFIC GRAVITY (H2O=1)

Laundry liquid..... 1.05
Dish liquid..... 1.01
Citrus, household cleaner. 1.01
Pine Bath cleaner 0.98

EVAPORATION RATE..... WATER=1; 1

PH

Laundry liquid..... 9.0 to 10.0 of the concentrate
Dish liquid..... 7.5 to 8.5 of the concentrate
Citrus, household cleaner..... 10.5 to 11.5 of the concentrate
Bath cleaner.... 9.5 to 10.5 of the concentrate

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT

Dish and laundry liquid.. Non-flammable
Citrus, household, bath cleaner....165 F

LOWER FLAME LIMIT..... Not applicable

HIGHER FLAME LIMIT..... Not applicable

EXTINGUISH MEDIA..... Use extinguishing media for primary source of fire.

SPECIAL FIRE FIGHTING PROCEDURES.. In case of fire, use water spray, foam, dry chemical, or CO2.

UNUSUAL FIRE HAZARD..... None

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY..... Ingestion or Inhalation

HEALTH HAZARDS..... Chemical burns and skin irritant

CARCINOGENICITY..... None

NTP?..... No

IARC MONOGRAPHS?..... No

OSHA REGULATED?..... No

THRESHOLD LIMIT VALUE..... No TLV established for this product. See SECTION II for TLV of hazardous materials.

OVER EXPOSURE EFFECTS.....

INHALATION

Laundry and dish liquids: No noticeable effects.

Citrus, Pine, household, bath cleaner: Irritation to eyes, nose and throat.
SKIN CONTACT:..... Possible irritation or dermatitis.
EYE CONTACT:..... Burning and irritation of eyes.
INGESTION:..... Irritation to nose and throat
LONG TERM EFFECTS. None known reported.

FIRST AID

EYE CONTACT: Flush immediately with plenty of water for at least 15 minutes and get medical attention.
SKIN CONTACT: Wash thoroughly with soap and water.
INGESTION: Seek medical attention immediately.
Laundry and dish liquids:
INDUCE VOMITING! Never give anything by to an unconscious person.
Citrus, Household, Pine Cleaner:
DO NOT INDUCE VOMITING! Never give anything by mouth to an person.
INHALATION: Remove to fresh air. If breathing is difficult give oxygen. If breathing stops, artificial respiration.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Stable
CONDITIONS TO AVOID
Laundry and dish liquid... None
Citrus, household, bath cleaner.....Avoid acidic conditions
INCOMPATIBLE MATERIALS
Laundry and dish liquid... Alkalies and Acids
Citrus, household, bath cleaner.....Acids
DECOMPOSITION PRODUCTS..... From thermal reaction, carbon dioxide and carbon monoxide.
HAZARDOUS POLYMERIZATION.... Will not occur.
POLYMERIZATION AVOID..... Not applicable

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material such as clay absorbent or use paper towels, rags or other absorbent media. Flush excess down sewer with plenty of water.

WASTE DISPOSAL METHOD..... Dispose of in accordance with federal, state, and local regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION.....
Laundry and Dish liquid... None required.
Citrus, Pine, Household cleaner....Use a NIOSH/OSHA approved mask when spray mist is present and/or the TLV has been exceeded.
VENTILATION..... Not required.
PROTECTIVE GLOVES
Dish liquid..... Rubber gloves

Laundry liquid..... Wear rubber gloves when washing clothes by hand.

Citrus, Household, bath cleaner...Rubber gloves

EYE PROTECTION

Dish liquid..... Not required

Laundry liquid..... Not required under normal use.

Citrus, Household, bath cleaner.....CHEMICAL GOGGLES OR SPLASH SHIELD

OTHER PROTECTION

Laundry and Dish liquid... None required

Citrus, Household, bath cleaner..... Rubber or plastic apron

SECTION IX - SPECIAL PRECAUTIONS

	Laundry & Dish	Citrus, Household, Bath cleaner
LABEL SUMMARY	HMIS	HMIS
HEALTH HAZARD.....	1	2
FLAMMABILITY	0	2
REACTIVITY	0	1

HANDLING AND STORAGE: Keep out of reach from children. For industrial or institutional use only. Keep from freezing.