



## TECHNICAL BULLETIN

### PRODUCT NO. 296 CLARIFIED LEMON JUICE CONCENTRATE- 400 GPL

#### Description

Product No. 296 is a special concentrate that has been manufactured from selected lemons, Citrus Limon L. Burmann filius (family Rutaceae). The concentrate has been clarified, concentrated and frozen. It contains no preservatives. It has application in beverages where no sedimentation or cloud is desired. To make single strength juice dilute 1 gallon of concentrate with 7 gallons of water.

#### Ingredients

Clarified Lemon Juice Concentrate.

#### Product Specifications

Brix (corrected): *	50°	±	6°
Acid (as citric):	400 gpl	±	5 gpl
pH:	1.90	to	2.50
Pulp (fine):	0% v/v		
Color:	Clear yellow at single strength		
Plate Count (on OSA):	<100 cfu/g		
Weight:	10.4 lbs (4.7Kg)/gal (average)		

\*Product is standardized by acid content. Brix and weight per gallon will vary by seasonal conditions.

#### Shipping and Storage

0° F (-17.8° C) or below. Product should be used as soon as possible after thawing.

#### Shelf Life

For best quality, use within two years.

#### Packaging

5 gallon (18.9 liters) fill in an HDPE pail.

Weight: 52 pounds (23.6 kg) net (average)  
54.5 pounds (24.7 kg) gross (average)

50 U.S. gallons (197 liters) in open-head steel drum with polyethylene liners.

Weight: 520 pounds (236 kg) net average  
570 pounds (285 kg) gross average



**TECHNICAL BULLETIN  
TABLE OF CONTENTS**

Cover Page	Specifications
Page 3	Nutrition Facts
Page 4, 5	Allergen and Sensitivity Agents Information
Page 6	Product Label
Page 7	Percent Range of Ingredients
Page 8	Product Thawing and Handling Table
Page 9, 10	Safety Data Sheet (SDS)
Page 11	HACCP Flow Chart
Page 12	Pallet Requirements and Configurations

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## TECHNICAL BULLETIN NUTRITION FACTS

PRODUCT NO. 296  
CLARIFIED LEMON JUICE CONCENTRATE - 400 GPL

Average Values per 100 grams

Calories	170
Calories from Fat	9
Moisture	56 g
Ash	2 g
Total Fat	1 g
Saturated Fat	0 g
Trans Fatty Acids	0 g
Cholesterol	0 mg
Sodium	60 mg
Potassium	860 mg
Total Carbohydrate	39 g
Dietary Fiber	0 g
Sugars	10 g
Added Sugars	0 g
Protein	2 g
Vitamin A	0 I.U.
Vitamin C	40 mg
Vitamin D	0 mcg
Calcium	90 mg
Iron	0.49 mg

These are calculated values based on published data and actual analysis. As these values are subject to geographic and environmental factors affecting the fruit being harvested, they can vary over a rather broad spectrum.



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**ALLERGEN AND SENSITIVITY AGENTS INFORMATION**

Vita-Pakt Product No. 296, Clarified Lemon Juice Concentrate – 400 gpl

Allergen	Present in Product	Present in Products Manufactured on Same Line	Present in Same Manufacturing Plant
<b>Egg/Egg Products</b> • Egg whites, albumen, lysozyme etc.	No	No	No
<b>Fish</b> • All species	No	No	No
<b>Milk/Milk Products</b> • Caseinates, NFDM, cheese, whey, lactose, butter, etc.	No	No	No
<b>Peanut Products</b> • All types (e. g. butter, oil, arachis, etc.)	No	No	No
<b>Shellfish Crustaceans</b> • Shrimp, crab, lobster, prawns, crayfish, etc.	No	No	No
<b>Soybean/Soy Products</b> • Tofu, miso, soy lecithin, soy flour, soy grits, soy isolate, hydrolyzed soy protein, etc.	No	No	No
<b>Tree Nuts</b> • All types (e.g., walnuts, almonds, cashews, pecans, hazelnuts, Brazil nuts, pistachios, pine nuts, macadamia, gingko nut, coconut, etc.)	No	No	No
<b>Wheat/Related Grains</b> • Wheat gluten, wheat flour, germ, farina, malt, etc.	No	No	No

<b>International Allergens &amp; Sensitizing Agents</b>	Present in Product	Present in Products Manufactured on Same Line	Present in Same Manufacturing Plant
<b>Added Diacetyl</b>	No	No	No
<b>Alternative Sweeteners</b> • Aspartame, fructose, Sorbitol, Stevia, Sucralose, etc.	No	No	No

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**ALLERGEN AND SENSITIVITY AGENTS INFORMATION**

Vita-Pakt Product No. 296, Clarified Lemon Juice Concentrate – 400 gpl

<b>International Allergens &amp; Sensitizing Agents</b>	<b>Present in Product</b>	<b>Present in Products Manufactured on Same Line</b>	<b>Present in Same Manufacturing Plant</b>
<b>Anti-Oxidants</b> • BHA, BHT, TBHQ, etc.	No	No	No
<b>Celery</b>	No	No	No
<b>Chocolate/Chocolate Derivatives</b>	No	No	No
<b>Colors</b> • Annatto, apo-carotenal, beet powder, caramel, carmine, cochineal, FD&C, paprika, tartrazine, turmeric, etc.	No	No	No
<b>Gluten</b> • Barley, malt, oats, rye, etc.	No	No	No
<b>Grains</b> • Barley, corn, oats, rice, etc.	No	No	No
<b>Hydrolyzed Vegetable Protein</b>	No	No	No
<b>Lupin/Lupine</b>	No	No	No
<b>Monosodium Glutamate (MSG)</b> • Autolyzed yeast/yeast extracts, Glutamic acid	No	No	No
<b>Mustard</b>	No	No	No
<b>Seeds/Seed Derivatives</b> • All types (e.g., caraway, celery seed, cottonseed, mustard, poppy, safflower, sesame, sunflower, etc.)	No	No	No
<b>Sesame</b>	No	No	No
<b>Shellfish Molluscan</b> • Clams, mussels, oyster, scallops, etc.	No	No	No
<b>Sulfites/Sulfur Dioxide</b> • Sodium bisulfite, sodium metabisulfite, sodium sulfite, potassium bisulfite, potassium metabisulfite, potassium sulfite, etc.	No	No	No

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LABEL





## PERCENT RANGE OF INGREDIENTS

Vita-Pakt Product #296, Clarified Lemon Juice Concentrate

<u>Ingredient</u>	<u>%wt/wt</u>
Clarified Lemon Juice Concentrate	100

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**TECHNICAL BULLETIN**

**GENERAL RECOMMENDATION TABLE FOR  
PRODUCT THAWING AND HANDLING**

**Thaw Procedure Table**

<b>Thawing Temperature</b>	<b>Thaw Time</b>	<b>Packaging</b>	<b>Residence Time (after thaw)</b>	<b>Total Time</b>
≤ 41 °F	5 – 7 Days	Pails	3 – 5 Days	8 – 12 Days
≤ 41 °F	7 – 10 Days	Drums	3 – 5 Days	10 – 15 Days
Circulating Bath < 70 °F	< 4 hours	Pails	Use Immediately	-
Microwave	-	Small Packages	Use Immediately	-

**Temperature Effect Table on Finished Products Shelf Stability Once Thawed**

<b>Storage Temperature</b>	<b>Shelf Stability</b>	<b>Thaw Time (pails)</b>	<b>Total Time Stable</b>	<b>Recommended Handling*</b>
45 °F	4.0 Days	5.0 Days	9.0 Days	Not Recommended
41 °F	7.0 Days	7.0 Days	14.0 Days	
40 °F	8.0 Days	8.0 Days	16.0 Days	
35 °F	19.0 Days	20.0 Days	39.0 Days	
30 °F	124.0 Days	N/A	124.0 Days	
25 °F	6 months	N/A	6 months	
14 °F	1 Year	N/A	1 Year	
0 °F	2 Years	N/A	2 Years	

Additional Comments: Typical thaw for products is generally 1 day for every 5 lbs. of product by weight. For peel products, the time to thaw decreases if the product is packed in syrup or juice.

- Recommended refreezing after thaw within 3 – 5 days to preserve stability. Refreeze in airtight containers, allowing expansion for single strength products. Food must be kept out Danger Zone of 40 °F – 140 °F whenever possible. Food takes longer to thaw at lower temperatures. Some areas of cold storage may be warmer or cooler depending on location from heat exchanger and doors.

Shelf stability is generally reduced to 50% of remaining shelf when product is refrozen.

Approved by: Vita-Pakt Technical and Quality Assurance

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**TECHNICAL BULLETIN  
SAFETY DATA SHEET**

**I. PRODUCT IDENTIFICATION**

Trade Name:	Lemon Juice Concentrate
Formula:	N/A
Chemical and Common Name:	Lemon Juice Concentrate
CAS Number:	N/A

**II. TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS**

Appearance and Odor:	Golden yellow liquid with odor characteristic of lemon.
Boiling Point (@ 760 mm Hg):	N/A
Vapor Pressure (Torr @ 25° C):	N/A
Vapor Density (Air = 1):	N/A
Specific Gravity (@ 25/25° C, H <sub>2</sub> O = 1):	N/A
Solubility in Water:	Complete

**III. FIRE, EXPLOSION AND REACTIVITY HAZARD DATA**

Flash Point (Tag Closed Cup):	N/A
Ignition Temperature:	N/A
Flammable Limits (Percent by Volume):	Lower: N/A Upper: N/A
Fire Extinguishing Media:	N/A
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	None
Hazardous Products of Combustion:	None
Stability Considerations:	Stable
Incompatibility With:	N/A
Hazardous Polymerization:	None
Hazardous Decomposition Products:	None
Conditions to Avoid:	None

**IV. HEALTH HAZARD DATA**

OSHA Permissible Exposure Limit:	Not Listed
ACGIH Threshold Limit Value:	Not Listed
Carcinogenicity:	N/A
Effects of Overexposure:	Acute: May cause slight skin irritation in sensitive individuals. Chronic: May cause slight skin irritation in sensitive individuals.
Primary Route(s) of Exposure:	Skin or eye contact.

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SAFETY DATA SHEET**

IV. HEALTH HAZARD DATA (cont'd.....)

Emergency First Aid Procedures:	Wash thoroughly with soap and water; thoroughly flush eyes.
Medial Conditions General Recognized As Being Aggravated By Exposure:	None

V. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled:	Contain with absorbent material or into drain.
rinse	
Waste Disposal Method:	If local ordinances permit, flush into sewer system.

VI. PERSONAL PROTECTION, HANDLING AND STORAGE INFORMATION

Personal Protective Equipment:	Adequate work clothes. For sensitive individuals, gloves may be required.
Appropriate Hygienic Practice:	Wash with soap and water after handling.
Ventilation:	N/A
Restrictions:	N/A
Handling and Storage Precautions:	Proper lifting techniques are Recommended. Store at 0° F. or below for best quality.

For further questions, contact Paul Gottschall at (559) 562-6008.

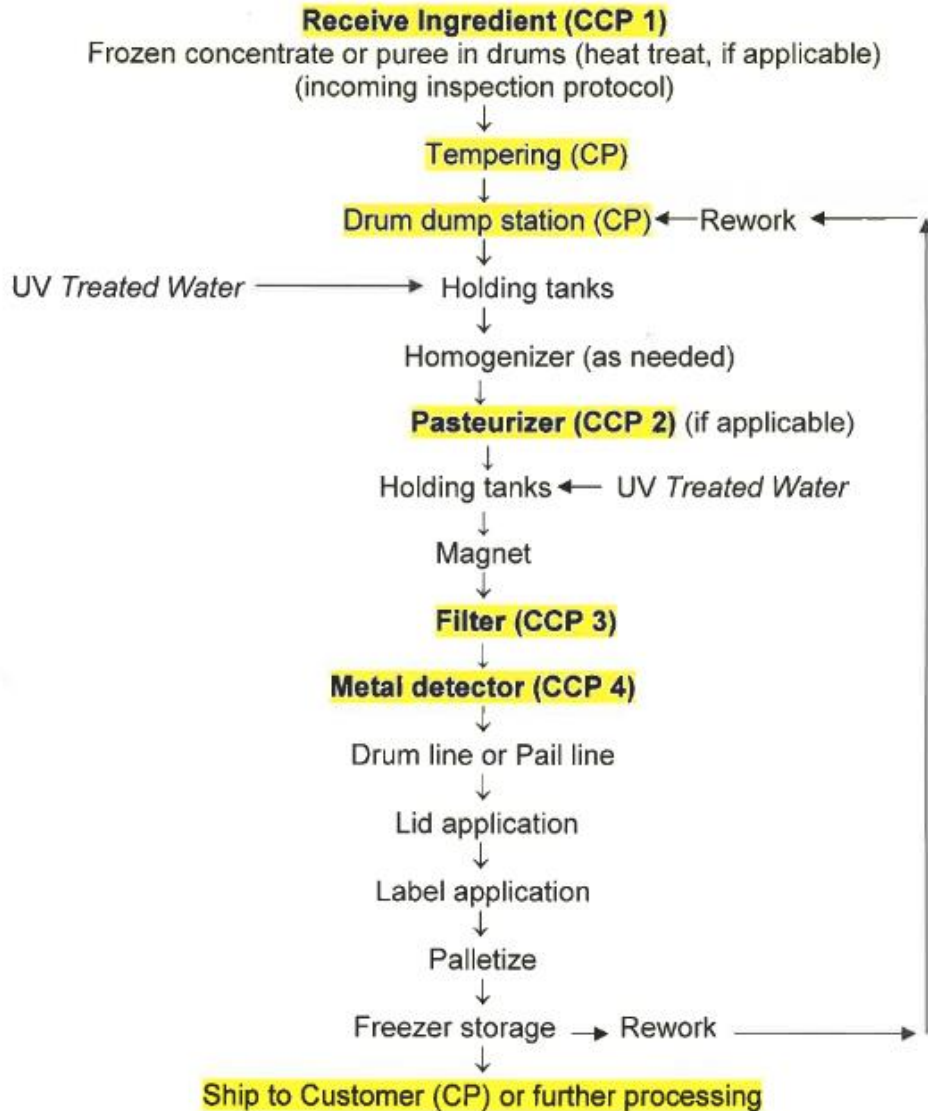
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**TECHNICAL BULLETIN**

**VITA-PAKT**  
**HACCP FLOW CHART FOR**  
**PROCESSING OF CONCENTRATE FROM**  
**DRUMS OR TANKER TO PACKAGING**



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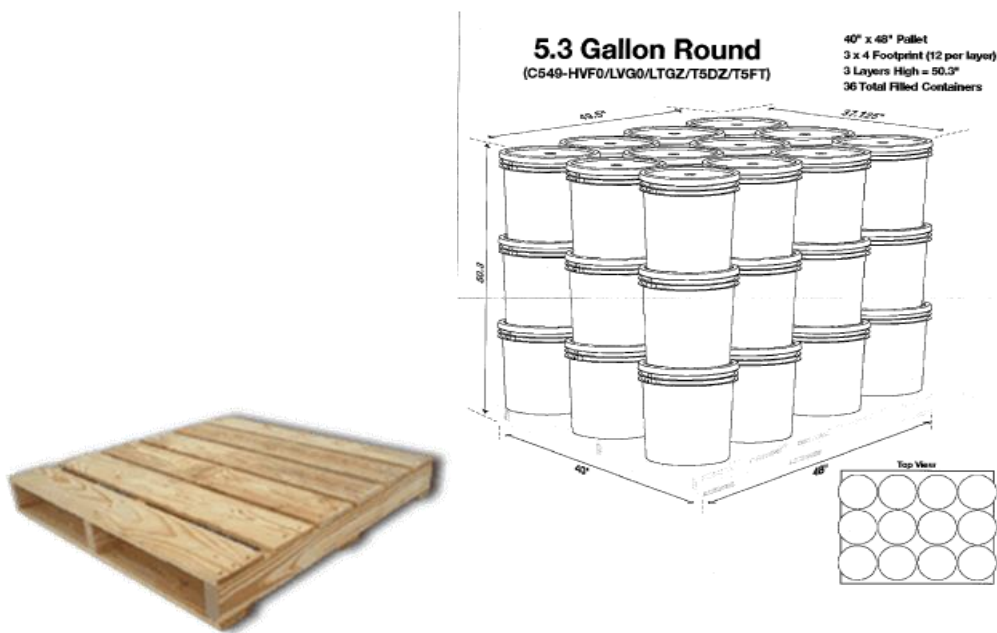
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PALLET REQUIREMENTS AND CONFIGURATIONS**

**GMA #1 required for all shipments**

Most 48" x 40" pallets are manufactured as "Grocery Manufacturer's Association" or GMA pallets.

- Stringers are 1 3/8" x 3 1/2" x 48".
- Stringers have two notches in the side to allow for forklift entry. This makes it a 4way pallet.
- Pallet boards are 5/8" thick.
- Top of pallet has a 5/8" x 5 1/2" x 40" board on each end, and five 5/8" x 3 1/2" x 40" boards in the center.
- Bottom of pallet has a 5/8" x 5 1/2" x 40" board on each end, and three 5/8" x 3 1/2" x 40" boards positioned between the notches.
- Alternate acceptable construction for GMA pallet is six 5/8" x 5 1/2" x 40" board on top, and four 5/8" x 5 1/2" x 40" boards on the bottom.

**Pallet Configurations**



**ISPM Requirement:**

All pallets shall be - **Heat Treated (HT)**: Wood packaging material should be heated in a schedule that achieves a minimum core temperature of 56°C for a minimum of 30 minutes. The American Lumber Standards Committee administers the U.S. certification program for heat treatment. Each pallet must be marked (branded) with certificate on file.

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