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## PRODUCT SPECIFICATIONS

**Product:** FLORAESTERS® IPJ  
**INCI Name:** Isopropyl Jojobate (and) Jojoba Alcohol (and) Jojoba Esters  
**Botanical Origin:** *Simmondsia chinensis*  
**Description:** Clear pale yellow liquid at or above room temperature (24°C), below room temperature partial crystallization may appear as cloud-like formations which may settle to the bottom, product can be used as is or warmed slightly to remove cloudiness. This product may darken slightly over time but will remain within the color specifications.  
**Product Code:** E5A-001

<u>Typical Properties</u>	<u>Method</u>	<u>Units</u>	<u>Range</u>	
			<u>min.</u>	<u>max.</u>
Dropping Point	TW68	°C	6	12
Hydroxyl Value	AOCS Cd 13-60	mg KOH/g	40	70
Iodine Value	AOCS Cd 1d-92	g/100g	75	85
Refractive Index @ 40°C	AOCS Cc 7-25	n <sub>D</sub>	1.452	1.454
Saponification Value	AOCS Cd 3-25	mg KOH/g	80	90
Specific Gravity	AOCS Cc 10c-95	---	0.855	0.860
Trans isomers	AOCS Cd 14-95	wt. %	None detected	
Viscosity @ 25°C	AOCS Ja 10-87	cP	15	25

### Specification Values

Acid Value	AOCS Ci 4-91	mg KOH/g	---	5
Color	AOCS Cc 13e-92	Lovibond, 5¼"	---	2 Red
Odor	TW71	---	Typical	
Peroxide Value	AOCS Cd 8-53	meq/kg	---	3
Absence of microbial contamination	TW26	CFU/g	---	100

### Composition (INCI Name)

		<u>Wt. % (approx.)</u>
Isopropyl Jojobate	TW14	35
Jojoba Alcohol	TW14	35
Jojoba Esters	TW14	30
Tocopherol		0.1

**Shelf Life** (from date of purchase when stored in the original unopened container at or below 35°C)

1 year

Typical Properties are verified on a random basis.

TW Method: Floritech Methods

Specification properties are verified on every product lot.

AOCS Method: Official Method of the American Oil Chemists' Society

FLORAESTERS Section

This product is warranted to perform in accordance with specifications and to be free from defects for 12 months from the date of purchase, when stored in the original unopened container, and with proper handling and storage. Floritech's obligation is limited to replacement of the product and is in lieu of all other warranties, expressed or implied. In no event shall Floritech be responsible for any incidental or consequential damages. Fully detailed technical literature is available. The preceding data is provided for the convenience of the user and does not relieve the user of normal liability for inspection of material upon delivery or prior to actual use. No warranty of fitness for a particular purpose is made. Statements concerning the possible use of our product is not intended as recommendations to use our product in the infringement of any patent. This product contains no animal-derived ingredients and, therefore, cannot carry the Bovine Spongiform Encephalopathy (BSE) disease. This product contains no detectable 'trans' isomers and no ingredients derived from genetically modified organisms (GMO).  
PS E5A-001