



ACME
HARDESTY
OLEOCHEMICALS

450 Sentry Parkway
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BIOSECUR[®] Organic Personal Care C160S Liquid

PRODUCT DATA SHEET

Product Characteristics

Description	Specification	Test method
Carrier used	Certified ORGANIC vegetable glycerin	n/a
Fruit type	Certified ORGANIC citrus (blend citrus without grapefruit)	n/a
Fruit part used	Flavedo and albedo layers	n/a
Active ingredient	Citrus bioflavonoid	HPLC (UV-Vis detection)

Physical test

Description	Specification	Test method
Color	Honey color	Visual
Appearance	Viscous crystalline liquid	Visual
Taste	Light acid, light sweet and light	Organoleptic
Odor	Agreeable (light citrus smell)	Organoleptic
Boiling Point	226°F - 108°C	Internal method
Volatility	Non-volatile	Internal method
Solubility in water/glycerol/ethanol	100% soluble	Internal method
Density at 25°C	1,11 g/ml to 1,22 g/ml	Pycnometer
pH	Between 2.0 to 3.5	Internal method
Batch to batch consistency	Identity test report	HPLC identity

Chemical test

Description	Specification	Test method
Pb	< 10ppm	Graphite furnace atomic absorption
As	< 1ppm Chemical Family	ICP-OES
Cd	< 1ppm Chemical Family	ICP-OES
Be	< 1ppm Chemical Family	ICP-OES
Cr	< 1ppm Chemical Family	ICP-OES

Microbiological Test

Description	Test method
Total aerobic bacteria count / gr	USP <61>
Total yeast / gr	USP <61>
Total mold / gr	USP <61>
Escherichia coli	USP <62>
Salmonella sp.	USP <62>
Staphylococcus aureus	USP <62>
Pseudomonas aeruginosa	USP <62>

Inquiries:

Acme-Hardesty Co
450 Sentry Parkway
Blue Bell, PA 19422
(800) 223-7054
csc@acme-hardesty.com

- * Certified Organic Citrus Extract
- * 3-Year Shelf-Life from the date of manufacture kept at ambient temperatures unopened.
- * Not considered genetically modified
- * Not derived from Genetically Modified Organisms (GMO's)
- * Bovine Spongiform Encephalopathy/Transmissible Spongiform Encephalopathy (BSE/TSE) free
- * Gluten-free
- * Material has not been subjected to Irradiation
- * REACH compliant
- * Refer to SDS as a guideline for Safety, Handling and Storage information

The data herein are based on our current knowledge and believed to be reliable. They are intended for use by persons having technical skill and at their own discretion and risk. Due to numerous factors that may affect handling, processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any data given herein may change without prior notice and do not constitute a contractual agreement regarding quality.

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Paraben Test

Description	Test method	Limits of detection
Methylparaben	UPLC-MS-MS	< 0,1 mg/L
Ethylparaben	UPLC-MS-MS	< 0,1 mg/L
Propylparaben	UPLC-MS-MS	< 0,1 mg/L
Isopropylparaben	UPLC-MS-MS	< 0,1 mg/L
Butylparaben	UPLC-MS-MS	< 0,1 mg/L
Isobutylparaben	UPLC-MS-MS	< 0,1 mg/L
These analyses are made by: TransBIOTech,		

Quaternary Test

Description	Test method	Limits of detection
Benzalkonium Chloride	HPLC-UV-MS	< 0,1 mg/L
Benzethonium Chloride	HPLC-UV-MS	< 0,1 mg/L
Triclosan	HPLC-UV-MS	< 0,1 mg/L

Other Test

Description	Test method	Limits of detection
Phenoxyethanol	GC-MS	< 10 ppm
Synephrine	HPLC-UV-Vis	0,004
Octopamine HCl	HPLC-UV-Vis	0,005
Hordenine	HPLC-UV-Vis	0,005
Formaldehyde	HPLC-EPA 1667	< 2000 ug/kg
These tests are made by: Chromadex,		

Proof of efficiency

Description	Test method	ATCC	Control
Escherichia coli	Efficiency disinfectants, SOP No. Val. 600.50	8739	1700
Salmonella enteric	Efficiency disinfectants, SOP No. Val. 600.50	14028	1300
Listeria monocytogenes	Efficiency disinfectants, SOP No. Val. 600.50	19115	1845

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