

VOCs: (Volatile Organic Compounds)

LOW VOCs: 4.1% (41 g/L) - As tested by EPA Method Number 24

ULTRA LOW EVAPORATIVE EMISSIONS:

Less than 0.005 @ 76° Fahrenheit relative to n-butyl acetate (NBAC) = 1

KAURI BUTANOL VALUE: 58

(d'Limonene – K13 - 56) – (Mineral Spirits – K13 - 35)

SPECIFIC GRAVITY:

0.876 g/mL at 25° C

DIELECTRIC STRENGTH: 43.2

BOILING POINT: 640° F

VAPOR PRESSURE:

<.04mm Hg at 68° F

HIGH FLASH POINT:

Above 300°F Fahrenheit

READILY BIODEGRADABLE:

95% degraded in soil in 28 days

REPLACES D'LIMONENE:

In most applications with no harsh or strong odor

HIGHLY COMPATIBLE:

With many other solvents in formulations or micro emulsions containing d'Limonene, NMP, mineral spirits and alcohols

SARA: (Superfund Amendments and Reauthorization Act)

TITLE III 313 – Not Reportable

TSCA: (Toxic Substance Control Act)

Listed in Inventory

SNAP: (Significant New Alternative Policy)

EPA listed as approved replacement chemical for solvent usage

HAP: (Hazardous Air Pollutants)

Not Listed

HMIS: (Hazardous Materials Information System)

Health 0, Flammability 1, Reactivity 0



**A High-Oleic Solvent to Address the EPA and Environmental Issues Facing Formulators Today and in the Future. (Contains no petroleum distillates)**

CE 110 is a biodegradable, non-toxic, low VOC high oleic content solvent derived from canola oil. The high oleic characteristic makes the solvent especially effective in higher heat and in applications where oxidation has the greatest potential. Like its soy methyl ester counterparts, the methyl canolate is a high performing “green” solvent that meets clean air and environmental challenges faced by today’s solvent users.

**Comparison Tables – Comparison with Common Solvents**

Solvent	Health (1)	Flammability (2)	Reactivity (3)
SOYGOLD 1000	0	1	0
SOYGOLD 1100	0	1	0
SOYGOLD 1500	0	1	0
SOYGOLD 2000	0	1	0
CANOLAGOLD 110	0	1	0
Mineral Spirits	0	2	0
VM&P Naphtha	1	3	0
Toluene	2	3	0
d'limonene	0	2	0

**(1) Health as per HMIS regulation** - 0 = Normal, 1 = Slightly Hazardous, 2 = Hazardous, 3 = Extreme Danger, 4 = Deadly.

**(2) Flammability (Flash Point °F) as per HMIS regulation** - 0 = Will not burn, 1 = Above 200°F, 2 = Above 100°F not exceeding 200°F, 3 = Below 73°F (Boiling Point at/above 100°F) and/or above 73°F not exceeding 100°F, 4 = Below 73°F (Boiling Point below 100°F).

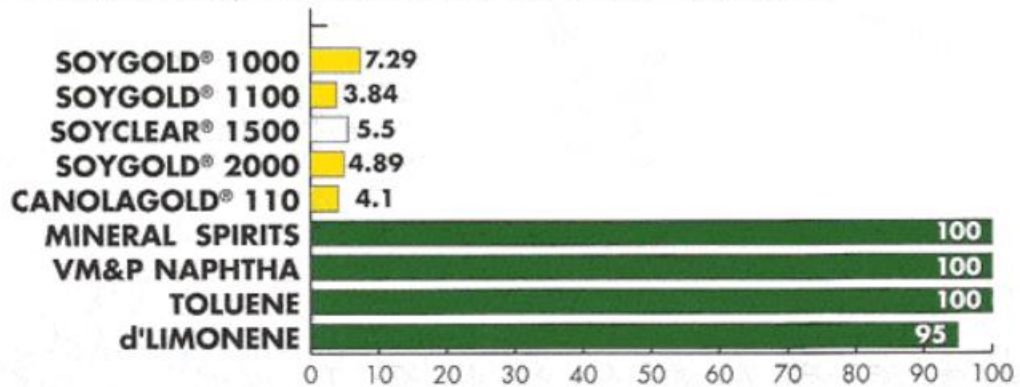
**(3) Reactivity as per HMIS regulation** - 0 = Stable, 1 = Unstable if heated, 2 = Violent chemical change, 3 = Shock/heat may detonate, 4 = May detonate

Solvent	Flash Closed Cup(°F)	Boiling Point(°F) @760mm HG	Evaporation Rate @ 25°C (NBAC=1.00)
SOYGOLD 1000	>300	632	<0.006
SOYGOLD 1100	>300	638	<0.005
SOYGOLD 1500	>300	634	<0.005
SOYGOLD 2000	>300	634	<0.005
CANOLAGOLD 110	>300	640	<0.002
Mineral Spirits	107	160-187	0.16
VM&P Naphtha	58	124-142	1.81
Toluene	40	110.6	2.00
d'limonene	121	175-176	0.005

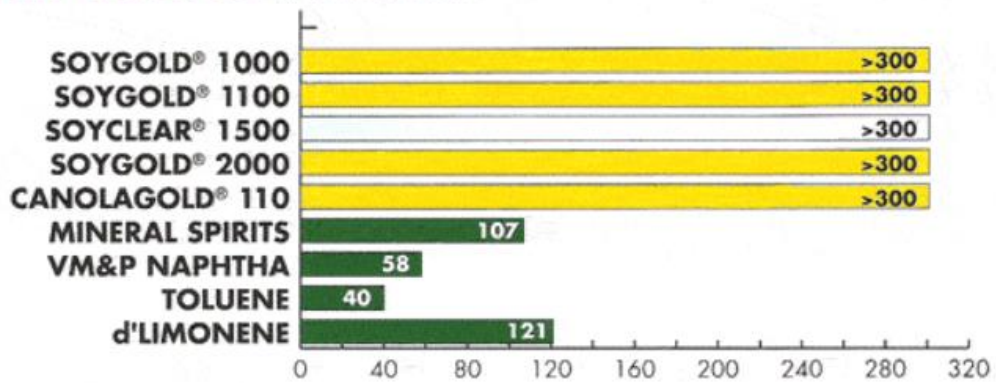
Solvent	Specific Gravity g/mL @ 25°C	Viscosity @ 25°C
SOYGOLD 1000	0.882	4.50
SOYGOLD 1100	0.880	4.50
SOYGOLD 1500	0.876	4.50
SOYGOLD 2000	0.882	4.72
CANOLAGOLD 110	0.876	4.50
Mineral Spirits	0.775	0.88
VM&P Naphtha	0.748	0.62
Toluene	0.863	0.57
d'limonene	0.843	3.50

**Comparison Graphs – Comparison with Common Solvents**

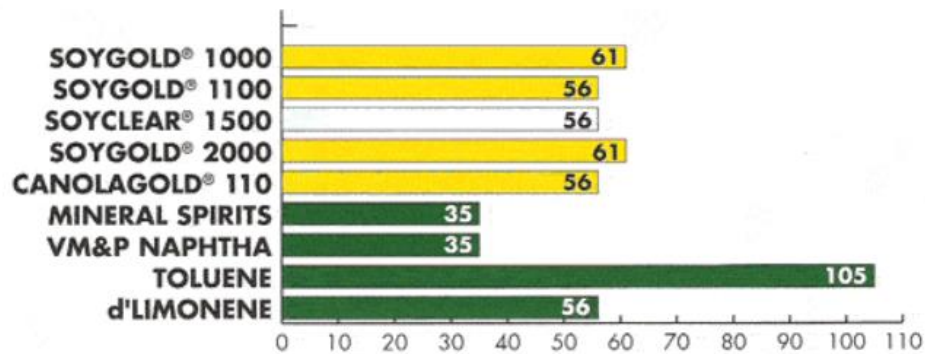
**PERCENT VOC (Volatile Organic Compounds) As tested by EPA Method number 24**



**FLASH POINT CLOSED CUP (° FAHRENHEIT)**



**KAURI-BUTANOL VALUES**



**Microbial Limits**

ACTS# (5100)	CE 110
Total Plate Count	est.<10 cfu/g
Yeast Count	<10 cfu/g
Mold Count	<10 cfu/g
<i>E. coli</i>	Negative
<i>Salmonella species</i>	Negative
<i>Staphylococcus aureus</i>	Negative
<i>Pseudomonas aeruginosa</i>	Negative

**Rubber Compatibility**

<b><u>RATING</u></b>	<b><u>APPROVED</u></b>
BEST AA	FEP - Teflon
A	FKM - Fluorocarbon - Viton
A	IIR - Isobutylene Isoprene - Butyl
A	FFKM - Chemraz - Kalrez
B	Kalrez - Perfluorinated Copolymer - FFKM (same as above)
B	Fluoraz - Fluorinated Copolymer - FXM
	<b><u>NOT APPROVED</u></b>
B	EP - Ethylene Propylene - EPDM
B	EPDM - Ethylene Propylene
NR	CR Chloroprene - Neoprene
NR	HNBR - Hydrogenated Nitrile
NR	Styrene Butadiene - SBR - BUNA-S
NR	Polyacrylate - ACM
NR	Polyurethane - AU, EU
NR	Polybutadiene - BR
NR	Aero Quip - AQP
NR	IIR - Synthetic Isoprene, Synthetic Polyisoprene, Synthetic Rubber
NR	NR - Natural Isoprene - Natural Rubber
NR	CSM - ChloroSulfanated Polyethylene - CSM - Hypalon
NR	FVMQ - Fluorosilicone
NR	Nitrile - NBR - BUNA-N